

[illegible]


```
1 0001 0 MODULE setact (
2 0002 0 IDENT = 'V04-000',
3 0003 0 ADDRESSING_MODE(EXTERNAL=GENERAL,
4 0004 0 NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1
9 0009 1 *****
10 0010 1 *
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28 0028 1 *
29 0029 1 *
30 0030 1 *****
31 0031 1
32 0032 1
33 0033 1 ++
34 0034 1 FACILITY: Set
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1
38 0038 1 This module contains the action routines for SET FILE, SET DIRECTORY,
39 0039 1 and SET VOLUME.
40 0040 1
41 0041 1 ENVIRONMENT:
42 0042 1
43 0043 1 Vax native, privileged user mode
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1 AUTHOR: Gerry Smith CREATION DATE: 04-Aug-1981
48 0048 1
49 0049 1 MODIFIED BY:
50 0050 1
51 0051 1 V03-005 GAS0047 Gerry Smith 15-Feb-1982
52 0052 1 Only get the file name for SET FILE/ENTER=filename.
53 0053 1 The $PARSE is moved to SETFILE, so that stickiness
54 0054 1 can be applied with the input file.
55 0055 1
56 0056 1 V03-004 GAS0038 Gerry Smith 2-Feb-1982
57 0057 1 Add /GLOBAL_BUFFERS action routine for SET FILE.
```

SETACT
V04-000

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: 58
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: 65
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: 69
0058 1
0059 1
0060 1
0061 1
0062 1
0063 1
0064 1
0065 1
0066 1
0067 1
0068 1
0069 1 !**

V03-003 GAS0030 Gerry Smith 1-Jan-1982
Add /RETENTION action routine, for SET VOLUME.
V03-002 GAS0026 Gerry Smith 18-Dec-1981
Use shared message file, and lower fatal messages to
simple error messages.
V03-001 GAS0021 Gerry Smith 30-Nov-1981
Allow zero values for group and member of UIC

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```
: 71      0070 1 LIBRARY 'SYSSLIBRARY:LIB';  
: 72      0071 1 LIBRARY 'SYSSLIBRARY:CLIMAC';  
: 73      0072 1 LIBRARY 'SYSSLIBRARY:TPAMAC';  
: 74      0073 1  
: 75      0074 1 STRUCTURE  
: 76      0075 1     BBLOCK [O, P, S, E; N] =  
: 77      0076 1     [N]  
: 78      0077 1     (BBLOCK + O)<P,S,E>;
```

```
80 0078 1 FORWARD ROUTINE
81 0079 1
82 0080 1     acc_act,
83 0081 1     back_act,
84 0082 1     noback_act,
85 0083 1     data_act,
86 0084 1     enter_act,
87 0085 1     erase_act,
88 0086 1     noerase_act,
89 0087 1     exp_act,
90 0088 1     noexp_act,
91 0089 1     ext_act,
92 0090 1     fprot_act,
93 0091 1     gbuf_act,
94 0092 1     journal_act,
95 0093 1     label_act,
96 0094 1     owner_act,
97 0095 1     retent_act,
98 0096 1     test_char,
99 0097 1     user_act,
100 0098 1     vprot_act,
101 0099 1     vrsn_act,
102 0100 1     window_act;
103 0101 1
104 0102 1 EXTERNAL ROUTINE
105 0103 1     calculate_max,
106 0104 1     sys$fao,
107 0105 1     lib$tparse,
108 0106 1     lib$cv_ttime,
109 0107 1     lib$cv_tdtm,
110 0108 1     lib$cv_tdtb;
111 0109 1
112 0110 1
113 0111 1 External data references
114 0112 1
115 0113 1 EXTERNAL
116 0114 1     rename_buf : VECTOR[nam$sc_maxrss,BYTE],
117 0115 1     file_name : VECTOR[2],
118 0116 1     file_rlf : BBLOCK[nam$sc_bln],
119 0117 1
120 0118 1     set$l_status,
121 0119 1     set$a_cliwork;
122 0120 1
123 0121 1
124 0122 1 Literal data definitions
125 0123 1
126 0124 1 LITERAL
127 0125 1     true = 1,
128 0126 1     false = 0;
129 0127 1
```

```
! Action routines for:
! /ACCESSED (VOLUME)
! /BACKUP (FILE)
! /NOBACKUP (FILE)
! /DATA CHECK (VOLUME,FILE)
! /ENTER (FILE)
! /ERASE ON DELETE (FILE)
! /NOERASE ON DELETE (FILE)
! /EXPIRATION DATE (FILE)
! /NOEXPIRATION DATE (FILE)
! /EXTENSION (FILE,VOLUME)
! /FILE PROTECTION (VOLUME)
! /GLOBAL BUFFERS (FILE)
! /JOURNAL (FILE)
! /LABEL (VOLUME)
! /OWNER UIC (ALL)
! /RETENTION (VOLUME)
! action routine used by retent_act
! /USER NAME (VOLUME)
! /PROTECTION (VOLUME)
! /VERSION LIMIT (DIRECTORY,FILE)
! /WINDOWS (VOLUME)
```

```
! Name buffer for /ENTER
! File name descriptor
! Related name block

! Status return for SET dispatcher
! CLI work area in SET dispatcher
```



```
131 0128 1 | Define the qualifier flag bits used by all SET FILE/DIRECTORY/VOLUME
132 0129 1 |
133 0130 1 |
134 0131 1 | GLOBAL LITERAL
135 P 0132 1 | SEQUALST
136 PP 0133 1 | (QUAL_...1,1,
137 PP 0134 1 | (access,).
138 PP 0135 1 | (backup,).
139 PP 0136 1 | (nobackup,).
140 PP 0137 1 | (confirm,).
141 P 0138 1 | (data,).
142 P 0139 1 | (enter,).
143 P 0140 1 | (eof,).
144 P 0141 1 | (erase,).
145 P 0142 1 | (noerase,).
146 P 0143 1 | (expi,).
147 P 0144 1 | (exte,).
148 P 0145 1 | (fprot,).
149 P 0146 1 | (gbuf,).
150 P 0147 1 | (journal,).
151 P 0148 1 | (label,).
152 P 0149 1 | (log,).
153 P 0150 1 | (nodi,).
154 P 0151 1 | (owner,).
155 P 0152 1 | (parent,).
156 P 0153 1 | (remove,).
157 P 0154 1 | (retent,).
158 P 0155 1 | (rprot,).
159 P 0156 1 | (trunc,).
160 P 0157 1 | (username,).
161 P 0158 1 | (vprot,).
162 P 0159 1 | (vrsn,).
163 0160 1 | (windows,));
164 0161 1 |
165 0162 1 | Define the DATA_CHECK option bits
166 0163 1 |
167 0164 1 | GLOBAL LITERAL
168 P 0165 1 | SEQUALST
169 PP 0166 1 | (DATA_...1,1,
170 PP 0167 1 | (read,).
171 PP 0168 1 | (nored,).
172 PP 0169 1 | (write,).
173 P 0170 1 | (nowrite,));
174 0171 1 |
175 0172 1 | Define the JOURNAL option bits
176 0173 1 |
177 0174 1 | GLOBAL LITERAL
178 P 0175 1 | SEQUALST
179 PP 0176 1 | (JRNL_...1,1,
180 PP 0177 1 | (ai,).
181 PP 0178 1 | (noai,).
182 PP 0179 1 | (at,).
183 PP 0180 1 | (noat,).
184 PP 0181 1 | (bi,).
185 PP 0182 1 | (nobi,).
186 PP 0183 1 | (ru,).
187 0184 1 |
```

ACCESSED	(VOLUME)
BACKUP	(FILE)
NOBACKUP	(FILE)
CONFIRM	(ALL)
DATA_CHECK	(FILE, VOLUME)
ENTER	(FILE)
END OF FILE	(FILE)
ERASE ON DELETE	(FILE)
NOERASE ON DELETE	(FILE)
EXPIRATION_DATE	(FILE)
EXTENSION	(FILE, VOLUME)
FILE_PROTECTION	(VOLUME)
GLOBAL_BUFFERS	(FILE)
JOURNAL	(FILE)
LABEL	(VOLUME)
LOG	(ALL)
NODIRECTORY	(FILE)
OWNER_UID	(ALL)
OWNER=PARENT	(FILE)
REMOVE	(FILE)
RETENTION	(VOLUME)
RECORD PROTECTION	(FILE, VOLUME)
TRUNCATE	(FILE)
USERNAME	(VOLUME)
PROTECTION	(VOLUME)
VERSION_LIMIT	(FILE, DIRECTORY)
WINDOWS	(VOLUME)

SETACT
V04-000

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:	188	P	0185	1	(noru,).
:	189	P	0186	1	(rum,).
:	190		0187	1	(norum,));
:	191		0188	1	
:	192		0189	1	


```
194 0190 1 |
195 0191 1 | Declare external references
196 0192 1 |
197 0193 1 | EXTERNAL
198 0194 1 |   setfile$flags : BITVECTOR[32],
199 0195 1 |   setfile$dflags : BITVECTOR[32],
200 0196 1 |   setfile$jflags : BITVECTOR[32],
201 0197 1 |   acc_value,
202 0198 1 |   exp_value : BBLOCK[8],
203 0199 1 |   exte_value,
204 0200 1 |   fprot_value,
205 0201 1 |   gbuf_value,
206 0202 1 |   label_value : VECTOR[2],
207 0203 1 |   uic_value,
208 0204 1 |   group,
209 0205 1 |   member,
210 0206 1 |   user_value : VECTOR[2],
211 0207 1 |   retmin_value : VECTOR[2],
212 0208 1 |   retmax_value : VECTOR[2],
213 0209 1 |   vprot_value,
214 0210 1 |   vrsn_value,
215 0211 1 |   window_value;
216 0212 1 |
217 0213 1 |
218 0214 1 |
219 0215 1 | Declare the error messages
220 0216 1 |
221 0217 1 | EXTERNAL LITERAL
222 0218 1 |   set$_facility,
223 0219 1 |   set$_operreq,
224 0220 1 |   set$_writeerr;
```

```
! Qualifier flags
! Data_check flag word
! Journal flag word
! LRU value
! Expiration date
! Extension quantity
! File_protection value
! Global buffer count
! Volume label descriptor
! Owner uic
! Group number
! Member number
! Username string descriptor
! Minimum retention time quadword
! Maximum retention time quadword
! Volume protection value
! Version limit
! Window length

! SET facility code
! OPER privilege required
! Error accessing file
```

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```

: 236      0230 1 |
: 237      0231 1 | TPARSE table for /DATA_CHECK options
: 238      0232 1 |
: 239      0233 1 $INIT_STATE (dc_state,dc_keys);
: 240      0234 1 |
: 241      P 0235 1 $STATE (optstart,
: 242      P 0236 1 (tpa$_eos,tpa$_exit,,data_write,setfile$dflags),! default is WRITE
: 243      0237 1 (tpa$_lambda,getoption));! fall thru to options
: 244      0238 1 |
: 245      P 0239 1 $STATE (getoption,
: 246      P 0240 1 ('READ',,,1^data_read,setfile$dflags),! READ present
: 247      P 0241 1 ('WRITE',,,1^data_write,setfile$dflags),! WRITE present
: 248      P 0242 1 ('NOREAD',,,1^data_noread,setfile$dflags),! NOREAD present
: 249      0243 1 ('NOWRITE',,,1^data_nowrite,setfile$dflags));! NOWRITE present
: 250      0244 1 |
: 251      P 0245 1 $STATE (,
: 252      P 0246 1 (tpa$_eos,tpa$_exit),! either end of line
: 253      0247 1 ('',,getoption));! or get rid of the comma
: 254      0248 1 |
```

```

: 256      0249 1 |
: 257      0250 1 | TPARSE table for /OWNER_UIC option
: 258      0251 1 |
: 259      0252 1 $INIT_STATE (owner_state,owner_keys);
: 260      0253 1 |
: 261      P 0254 1 $STATE (ownerstart,
: 262      P 0255 1 ('PARENT',tpa$_exit,,1^qual_parent,setfile$flags), ! Check for PARENT
: 263      P 0256 1 ('['), ! Look for square bracket
: 264      0257 1 ('<')); ! Or a squiggle
: 265      0258 1 |
: 266      P 0259 1 $STATE (,
: 267      0260 1 (tpa$_octal,,,,group)); ! Get group number
: 268      0261 1 |
: 269      P 0262 1 $STATE (f,'); ! Get rid of the comma
: 270      0263 1 |
: 271      0264 1 |
: 272      P 0265 1 $STATE (,
: 273      0266 1 (tpa$_octal,,,,member)); ! Get member number
: 274      0267 1 |
: 275      P 0268 1 $STATE (f,'); ! Get end bracket
: 276      P 0269 1 ('>'));
: 277      0270 1 |
: 278      0271 1 |
: 279      P 0272 1 $STATE (,
: 280      0273 1 (tpa$_eos,tpa$_exit)); ! Clean-up
```



```

: 282      0274 1 |
: 283      0275 1 | TPARSE table for /JOURNAL option
: 284      0276 1 |
: 285      0277 1 $INIT_STATE (journal_state, journal_keys);
: 286      0278 1 |
: 287      P 0279 1 $STATE (getjopts,
: 288      P 0280 1      ('AI'...1^jrnل_ai,setfile$iflags),      | AI journaling
: 289      P 0281 1      ('AT'...1^jrnل_at,setfile$iflags),      | AT journaling
: 290      P 0282 1      ('BI'...1^jrnل_bi,setfile$iflags),      | BI journaling
: 291      P 0283 1      ('NOAI'...1^jrnل_noai,setfile$iflags),    | No AI journaling
: 292      P 0284 1      ('NOAT'...1^jrnل_noat,setfile$iflags),    | No AT journaling
: 293      P 0285 1      ('NOBI'...1^jrnل_nobi,setfile$iflags),    | No BI journaling
: 294      P 0286 1      ('NORU'...1^jrnل_noru,setfile$iflags),    | No RU journaling
: 295      P 0287 1      ('NORUM'...1^jrnل_norum,setfile$iflags),  | No RUM journaling
: 296      P 0288 1      ('RU'...1^jrnل_ru,setfile$iflags),        | RU journaling
: 297      0289 1      ('RUM'...1^jrnل_rum,setfile$iflags));      | RUM journaling
: 298      0290 1 |
: 299      P 0291 1 $STATE (,
: 300      P 0292 1      (tpa$_eos,tpa$_exit),                    | Either the end
: 301      0293 1      ('.',getjopts));                            | Or more to come
```

```
303      0294 1 |
304      0295 1 | TPARSE table for protection
305      0296 1 |
306      0297 1 |
307      0298 1 $INIT_STATE (pro_state, pro_keys);
308      0299 1
309      P 0300 1 $STATE (NEXTPRO,
310      P 0301 1 ('SYSTEM', SYPR,, %X'000F0000', fprot_value),
311      P 0302 1 ('OWNER', OWPR,, %X'00F00000', fprot_value),
312      P 0303 1 ('GROUP', GRPR,, %X'0F000000', fprot_value),
313      P 0304 1 ('WORLD', WOPR,, %X'F0000000', fprot_value)
314      0305 1 );
315      0306 1
316      P 0307 1 $STATE (SYPR,
317      P 0308 1 (''),
318      P 0309 1 ('='),
319      P 0310 1 (TPAS_LAMBDA, ENDPRO)
320      0311 1 );
321      0312 1
322      P 0313 1 $STATE (SYPRO,
323      P 0314 1 ('R', SYPRO,, %X'0001', fprot_value),
324      P 0315 1 ('W', SYPRO,, %X'0002', fprot_value),
325      P 0316 1 ('E', SYPRO,, %X'0004', fprot_value),
326      P 0317 1 ('P', SYPRO,, %X'0004', fprot_value),
327      P 0318 1 ('D', SYPRO,, %X'0008', fprot_value),
328      P 0319 1 ('L', SYPRO,, %X'0008', fprot_value),
329      P 0320 1 (TPAS_LAMBDA, ENDPRO)
330      0321 1 );
331      0322 1
332      P 0323 1 $STATE (OWPR,
333      P 0324 1 (''),
334      P 0325 1 ('='),
335      P 0326 1 (TPAS_LAMBDA, ENDPRO)
336      0327 1 );
337      0328 1
338      P 0329 1 $STATE (OWPRO,
339      P 0330 1 ('R', OWPRO,, %X'0010', fprot_value),
340      P 0331 1 ('W', OWPRO,, %X'0020', fprot_value),
341      P 0332 1 ('E', OWPRO,, %X'0040', fprot_value),
342      P 0333 1 ('P', OWPRO,, %X'0040', fprot_value),
343      P 0334 1 ('D', OWPRO,, %X'0080', fprot_value),
344      P 0335 1 ('L', OWPRO,, %X'0080', fprot_value),
345      P 0336 1 (TPAS_LAMBDA, ENDPRO)
346      0337 1 );
347      0338 1
348      P 0339 1 $STATE (GRPR,
349      P 0340 1 (''),
350      P 0341 1 ('='),
351      P 0342 1 (TPAS_LAMBDA, ENDPRO)
352      0343 1 );
353      0344 1
354      P 0345 1 $STATE (GRPRO,
355      P 0346 1 ('R', GRPRO,, %X'0100', fprot_value),
356      P 0347 1 ('W', GRPRO,, %X'0200', fprot_value),
357      P 0348 1 ('E', GRPRO,, %X'0400', fprot_value),
358      P 0349 1 ('P', GRPRO,, %X'0400', fprot_value),
359      P 0350 1 ('D', GRPRO,, %X'0800', fprot_value),
```



```

: 360      P 0351 1      ('L' GRPRO,, ZX'0800', fprot_value),
: 361      P 0352 1      (TPAS_LAMBDA, ENDPRO)
: 362      P 0353 1      );
: 363      P 0354 1
: 364      P 0355 1 $STATE (WOPR,
: 365      P 0356 1      (':'),
: 366      P 0357 1      ('='),
: 367      P 0358 1      (TPAS_LAMBDA, ENDPRO)
: 368      P 0359 1      );
: 369      P 0360 1
: 370      P 0361 1 $STATE (WOPRO,
: 371      P 0362 1      ('R', WOPRO,, ZX'1000', fprot_value),
: 372      P 0363 1      ('W', WOPRO,, ZX'2000', fprot_value),
: 373      P 0364 1      ('E', WOPRO,, ZX'4000', fprot_value),
: 374      P 0365 1      ('P', WOPRO,, ZX'4000', fprot_value),
: 375      P 0366 1      ('D', WOPRO,, ZX'8000', fprot_value),
: 376      P 0367 1      ('L', WOPRO,, ZX'8000', fprot_value),
: 377      P 0368 1      (TPAS_LAMBDA, ENDPRO)
: 378      P 0369 1      );
: 379      P 0370 1
: 380      P 0371 1 $STATE (ENDPRO,
: 381      P 0372 1      ('', NEXTPRO)
: 382      P 0373 1      (TPAS_EOS, TPAS_EXIT)
: 383      P 0374 1      );

```

```

: 385      0375 1 |
: 386      0376 1 | Tparse table for /RETENTION option
: 387      0377 1 |
: 388      0378 1 $INIT_STATE (ret_state, ret_keys)
: 389      0379 1
: 390      P 0380 1 $STATE (retstart,
: 391      0381 1 ((get_delta),,,,retmin_value));      ! Get the first delta string
: 392      0382 1
: 393      P 0383 1 $STATE (
: 394      0384 1 (','),
: 395      0385 1 (tpa$_eos,tpa$_exit));      ! If a comma, get next string
: 396      0386 1      ! Else exit
: 397      P 0387 1 $STATE (
: 398      0388 1 ((get_delta),,,,retmax_value));      ! Get the next delta string
: 399      0389 1
: 400      P 0390 1 $STATE (
: 401      0391 1 (tpa$_eos,tpa$_exit));      ! And exit
: 402      0392 1
: 403      P 0393 1 $STATE (get_delta,
: 404      P 0394 1 (tpa$_any,get_delta,test_char),      ! Get next character in delta string
: 405      0395 1 (tpa$_lambda,tpa$_exit));
```



```
407 0396 1 GLOBAL ROUTINE acc_act (option_block, callback) =
408 0397 1 ++
409 0398 1
410 0399 1 This is the action routine for the /ACCESSED qualifier. It first checks to
411 0400 1 make sure that the process has OPER privilege. If so, then the ACCESS value
412 0401 1 is obtained and bounds checking is performed on it.
413 0402 1
414 0403 1 --
415 0404 1 BEGIN
416 0405 1
417 0406 1 OWN privs : BBLOCK[8]; ! Place to store the process privileges
418 0407 1
419 0408 1 LOCAL
420 0409 1 status, ! Status return
421 0410 1 desc : BBLOCK[dsc$sc_s_bln]; ! General descriptor
422 0411 1
423 0412 1 MAP option_block : REF BBLOCK; ! Define the CLI block
424 0413 1
425 0414 1
426 0415 1 Call $SETPRV to get the current privileges of the process. If the process
427 0416 1 does not have OPER, then signal an error and stop.
428 0417 1
429 P 0418 1 IF NOT (status = $SETPRV(ENBFLG = 1, ! Enable
430 PP 0419 1 PRVADR = 0, ! No new privileges
431 P 0420 1 PRMFLG = 1, ! Get current privileges
432 0421 1 PRVPRV = privs))
433 0422 1 THEN SIGNAL_STOP(.status);
434 0423 1
435 0424 1 IF NOT .privs[prv$oper] THEN SIGNAL_STOP(set$_operreq);
436 0425 1
437 0426 1
438 0427 1 The process has the correct privilege, so go ahead and get the value
439 0428 1
440 0429 1
441 0430 1 acc_value = 3; ! Set up the default
442 0431 1
443 0432 1
444 0433 1 If a value was specified, use it; otherwise, use the default.
445 0434 1
446 0435 1 IF .option_block[cli$w_qdvalsiz] EQL 0
447 0436 1 THEN RETURN true;
448 0437 1
449 0438 1
450 0439 1 Convert the value
451 0440 1
452 0441 1 IF NOT (status = LIB$CVT_DTB(.option_block[cli$w_qdvalsiz],
453 0442 1 .option_block[cli$a_qdvaladr],
454 0443 1 acc_value))
455 0444 1 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_error, ! Signal a syntax error
456 0445 1 1,
457 0446 1 option_block[cli$q_qdvaldesc],
458 0447 1 .status)
459 0448 1 ELSE
460 0449 1 BEGIN
461 0450 1 IF NOT (.acc_value GEQ 0 ! Check that value is in range
462 0451 1 AND
463 0452 1 .acc_value LEQ 255)
```

SETACT
V04-000

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: 464      0453 3      THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,      ! If not, exit with an error.
: 465      0454 3      1,
: 466      0455 3      option_block[cli$_q_dvaldesc],
: 467      0456 3      set$_facility^16 + shr$_valerr + sts$_k_error);
: 468      0457 2      END;
: 469      0458 2      RETURN true;
: 470      0459 1      END;
```

		.TITLE		SETACT	
		.IDENT		\V04-000\	
		.PSECT		_LIB\$KEY1\$,NOWRT, SHR, PIC,1	
		00000	:TPASKEYSTO		
			U.9: .BLKB	0	
44	41 45 52	00000	:TPASKEYST		
			U.11: .ASCII	\READ\	:
		FF 00004	.BYTE	-1	:
		00005	:TPASKEYSTO		
			U.15: .BLKB	0	
45	54 49 52 57	00005	:TPASKEYST		
			U.17: .ASCII	\WRITE\	:
		FF 0000A	.BYTE	-1	:
		0000B	:TPASKEYSTO		
			U.21: .BLKB	0	
44	41 45 52 4F 4E	0000B	:TPASKEYST		
			U.23: .ASCII	\NOREAD\	:
		FF 00011	.BYTE	-1	:
		00012	:TPASKEYSTO		
			U.27: .BLKB	0	
45	54 49 52 57 4F 4E	00012	:TPASKEYST		
			U.29: .ASCII	\NOWRITE\	:
		FF 00019	.BYTE	-1	:
		FF 0001A	:TPASKEYFILL		:
			U.33: .BYTE	-1	:
		0001B	:TPASKEYSTO		
			U.39: .BLKB	0	
54	4E 45 52 41 50	0001B	:TPASKEYST		
			U.41: .ASCII	\PARENT\	:
		FF 00021	.BYTE	-1	:
		FF 00022	:TPASKEYFILL		:
			U.48: .BYTE	-1	:
		00023	:TPASKEYSTO		
			U.59: .BLKB	0	
	49 41	00023	:TPASKEYST		
			U.61: .ASCII	\AI\	:
		FF 00025	.BYTE	-1	:
		00026	:TPASKEYSTO		
			U.65: .BLKB	0	
	54 41	00026	:TPASKEYST		
			U.67: .ASCII	\AT\	:
		FF 00028	.BYTE	-1	:
		00029	:TPASKEYSTO		
			U.71: .BLKB	0	
	49 42	00029	:TPASKEYST		
			U.73: .ASCII	\BI\	:

				FF	0002B				TPASKEYSTO	BYTE	-1	
					0002C				U.77:	BLKB	0	
49	41	4F	4E		0002C				U.79:	ASCII	\NOAI\	
				FF	00030					BYTE	-1	
					00031				U.83:	BLKB	0	
54	41	4F	4E		00031				U.85:	ASCII	\NOAT\	
				FF	00035					BYTE	-1	
					00036				U.89:	BLKB	0	
49	42	4F	4E		00036				U.91:	ASCII	\NOBI\	
				FF	0003A					BYTE	-1	
					0003B				U.95:	BLKB	0	
55	52	4F	4E		0003B				U.97:	ASCII	\NORU\	
				FF	0003F					BYTE	-1	
					00040				U.101:	BLKB	0	
4D	55	52	4F	4E	00040				U.103:	ASCII	\NORUM\	
				FF	00045					BYTE	-1	
					00046				U.107:	BLKB	0	
			55	52	00046				U.109:	ASCII	\RU\	
				FF	00048					BYTE	-1	
					00049				U.113:	BLKB	0	
			4D	55	52	00049			U.115:	ASCII	\RUM\	
				FF	0004C					BYTE	-1	
				FF	0004D				U.119:	BYTE	-1	
					0004E				U.125:	BLKB	0	
4D	45	54	53	59	53	0004E			U.127:	ASCII	\SYSTEM\	
				FF	00054					BYTE	-1	
					00055				U.133:	BLKB	0	
52	45	4E	57	4F	00055				U.135:	ASCII	\OWNER\	
				FF	0005A					BYTE	-1	
					0005B				U.141:	BLKB	0	
50	55	4F	52	47	0005B				U.143:	ASCII	\GROUP\	
				FF	00060					BYTE	-1	
					00061				U.149:	BLKB	0	
44	4C	52	4F	57	00061				U.151:	ASCII	\WORLD\	

```
FF 00066 .BYTE -1
FF 00067 :TPASKEYFILL
      U.157: .BYTE -1

      .PSECT _LIB$STATES,NOWRT, SHR, PIC,1

00000 DC_STATE::
      .BLKB 0
00000 OPTSTART:
      .BLKB 0
71F7 00000 :TPASTYPE
      U.2: .WORD 29175
00000000* 00002 :TPASADDR
      U.3: .LONG <<SETFILE$DFlags-U.3>-4>
00000003 00006 :TPASMASK
      U.4: .LONG 3
FFFF 0000A :TPASTARGET
      U.5: .WORD -1
15F6 0000C :TPASTYPE
      U.6: .WORD 5622
0000* 0000E :TPASTARGET
      U.8: .WORD <<U.7-U.8>-2>
      00010 :GETOPTION
      U.7: .BLKB 0
6100 00010 :TPASTYPE
      U.12: .WORD 24832
00000000* 00012 :TPASADDR
      U.13: .LONG <<SETFILE$DFlags-U.13>-4>
00000002 00016 :TPASMASK
      U.14: .LONG 2
6101 0001A :TPASTYPE
      U.18: .WORD 24833
00000000* 0001C :TPASADDR
      U.19: .LONG <<SETFILE$DFlags-U.19>-4>
00000008 00020 :TPASMASK
      U.20: .LONG 8
6102 00024 :TPASTYPE
      U.24: .WORD 24834
00000000* 00026 :TPASADDR
      U.25: .LONG <<SETFILE$DFlags-U.25>-4>
00000004 0002A :TPASMASK
      U.26: .LONG 4
6503 0002E :TPASTYPE
      U.30: .WORD 25859
00000000* 00030 :TPASADDR
      U.31: .LONG <<SETFILE$DFlags-U.31>-4>
00000010 00034 :TPASMASK
      U.32: .LONG 16
11F7 00038 :TPASTYPE
      U.34: .WORD 4599
FFFF 0003A :TPASTARGET
      U.35: .WORD -1
142C 0003C :TPASTYPE
      U.36: .WORD 5164
0000* 0003E :TPASTARGET
      U.37: .WORD <<U.7-U.37>-2>
00040 OWNER_STATE::
```


	00040	OWNERSTART:	.BLKB	0	
7100	00040	:TPASTYPE	.BLKB	0	
00000000*	00042	U.42:	WORD	28928	:
00080000	00042	:TPASADDR			:
	00046	U.43:	LONG	<<SETFILES\$FLAGS-U.43>-4>	:
FFFF	00046	:TPASMASK			:
	0004A	U.44:	LONG	524288	:
005B	0004A	:TPASTARGET			:
	0004C	U.45:	WORD	-1	:
043C	0004C	:TPASTYPE			:
	0004E	U.46:	WORD	91	:
45F4	0004E	:TPASTYPE			:
	00050	U.47:	WORD	1084	:
00000000*	00050	:TPASTYPE			:
	00052	U.49:	WORD	17908	:
	00052	:TPASADDR			:
042C	00052	U.50:	LONG	<<GROUP-U.50>-4>	:
	00056	:TPASTYPE			:
45F4	00056	U.51:	WORD	1068	:
	00058	:TPASTYPE			:
00000000*	00058	U.52:	WORD	17908	:
	0005A	:TPASADDR			:
005D	0005A	U.53:	LONG	<<MEMBER-U.53>-4>	:
	0005E	:TPASTYPE			:
043E	0005E	U.54:	WORD	93	:
	00060	:TPASTYPE			:
15F7	00060	U.55:	WORD	1086	:
	00062	:TPASTYPE			:
FFFF	00062	U.56:	WORD	5623	:
	00064	:TPASTARGET			:
	00066	U.57:	WORD	-1	:
	00066	.BLKB		2	:
	00068	JOURNAL_STATE::			:
	00068	.BLKB		0	:
	00068	GETJOPTS:			:
6100	00068	.BLKB		0	:
	00068	:TPASTYPE			:
00000000*	00068	U.62:	WORD	24832	:
	0006A	:TPASADDR			:
00000002	0006A	U.63:	LONG	<<SETFILES\$JFLAGS-U.63>-4>	:
	0006E	:TPASMASK			:
6101	0006E	U.64:	LONG	2	:
	00072	:TPASTYPE			:
00000000*	00072	U.68:	WORD	24833	:
	00074	:TPASADDR			:
00000008	00074	U.69:	LONG	<<SETFILES\$JFLAGS-U.69>-4>	:
	00078	:TPASMASK			:
6102	00078	U.70:	LONG	8	:
	0007C	:TPASTYPE			:
00000000*	0007C	U.74:	WORD	24834	:
	0007E	:TPASADDR			:
00000020	0007E	U.75:	LONG	<<SETFILES\$JFLAGS-U.75>-4>	:
	00082	:TPASMASK			:
6103	00082	U.76:	LONG	32	:
	00086	:TPASTYPE			:

00000000*	00088	U.80: .WORD	24835	:
		:TPASADDR		
00000004	0008C	U.81: .LONG	<<SETFILESJFLAGS-U.81>-4>	:
		:TPASMASK		
6104	00090	U.82: .LONG	4	:
		:TPASTYPE		
00000000*	00092	U.86: .WORD	24836	:
		:TPASADDR		
00000010	00096	U.87: .LONG	<<SETFILESJFLAGS-U.87>-4>	:
		:TPASMASK		
6105	0009A	U.88: .LONG	16	:
		:TPASTYPE		
00000000*	0009C	U.92: .WORD	24837	:
		:TPASADDR		
00000040	000A0	U.93: .LONG	<<SETFILESJFLAGS-U.93>-4>	:
		:TPASMASK		
6106	000A4	U.94: .LONG	64	:
		:TPASTYPE		
00000000*	000A6	U.98: .WORD	24838	:
		:TPASADDR		
00000100	000AA	U.99: .LONG	<<SETFILESJFLAGS-U.99>-4>	:
		:TPASMASK		
6107	000AE	U.100: .LONG	256	:
		:TPASTYPE		
00000000*	000B0	U.104: .WORD	24839	:
		:TPASADDR		
00000400	000B4	U.105: .LONG	<<SETFILESJFLAGS-U.105>-4>	:
		:TPASMASK		
6108	000B8	U.106: .LONG	1024	:
		:TPASTYPE		
00000000*	000BA	U.110: .WORD	24840	:
		:TPASADDR		
00000080	000BE	U.111: .LONG	<<SETFILESJFLAGS-U.111>-4>	:
		:TPASMASK		
6509	000C2	U.112: .LONG	128	:
		:TPASTYPE		
00000000*	000C4	U.116: .WORD	25865	:
		:TPASADDR		
00000200	000C8	U.117: .LONG	<<SETFILESJFLAGS-U.117>-4>	:
		:TPASMASK		
11F7	000CC	U.118: .LONG	512	:
		:TPASTYPE		
FFFF	000CE	U.120: .WORD	4599	:
		:TPASTARGET		
142C	000D0	U.121: .WORD	-1	:
		:TPASTYPE		
0000*	000D2	U.122: .WORD	5164	:
		:TPASTARGET		
		U.123: .WORD	<<GETJOPTS-U.123>-2>	:
	000D4	PRO_STATE::		
		.BLKB	0	
	000D4	NEXTPRO: .BLKB	0	
7100	000D4	:TPASTYPE		
		U.128: .WORD	28928	:
00000000*	000D6	:TPASADDR		
		U.129: .LONG	<<FPROT_VALUE-U.129>-4>	:
000F0000	000DA	:TPASMASK		

0000*	000DE	U.130: .LONG	983040	:
		:TPASTARGET		:
7101	000E0	U.132: .WORD	<<U.131-U.132>-2>	:
		:TPASTYPE		:
00000000*	000E2	U.136: .WORD	28929	:
		:TPASADDR		:
00F00000	000E6	U.137: .LONG	<<FPROT_VALUE-U.137>-4>	:
		:TPASMASK		:
0000*	000EA	U.138: .LONG	15728640	:
		:TPASTARGET		:
7102	000EC	U.140: .WORD	<<U.139-U.140>-2>	:
		:TPASTYPE		:
00000000*	000EE	U.144: .WORD	28930	:
		:TPASADDR		:
0F000000	000F2	U.145: .LONG	<<FPROT_VALUE-U.145>-4>	:
		:TPASMASK		:
0000*	000F6	U.146: .LONG	251658240	:
		:TPASTARGET		:
7503	000F8	U.148: .WORD	<<U.147-U.148>-2>	:
		:TPASTYPE		:
00000000*	000FA	U.152: .WORD	29955	:
		:TPASADDR		:
F0000000	000FE	U.153: .LONG	<<FPROT_VALUE-U.153>-4>	:
		:TPASMASK		:
0000*	00102	U.154: .LONG	-268435456	:
		:TPASTARGET		:
	00104	U.156: .WORD	<<U.155-U.156>-2>	:
		:SYPR		:
003A	00104	U.131: .BLKB	0	:
		:TPASTYPE		:
003D	00106	U.158: .WORD	58	:
		:TPASTYPE		:
15F6	00108	U.159: .WORD	61	:
		:TPASTYPE		:
0000*	0010A	U.160: .WORD	5622	:
		:TPASTARGET		:
	0010C	U.162: .WORD	<<U.161-U.162>-2>	:
		:SYPRO: .BLKB	0	:
7052	0010C	:TPASTYPE		:
		U.163: .WORD	28754	:
00000000*	0010E	:TPASADDR		:
		U.164: .LONG	<<FPROT_VALUE-U.164>-4>	:
00000001	00112	:TPASMASK		:
		U.165: .LONG	1	:
0000*	00116	:TPASTARGET		:
		U.166: .WORD	<<SYPRO-U.166>-2>	:
7057	00118	:TPASTYPE		:
		U.167: .WORD	28759	:
00000000*	0011A	:TPASADDR		:
		U.168: .LONG	<<FPROT_VALUE-U.168>-4>	:
00000002	0011E	:TPASMASK		:
		U.169: .LONG	2	:
0000*	00122	:TPASTARGET		:
		U.170: .WORD	<<SYPRO-U.170>-2>	:
7045	00124	:TPASTYPE		:
		U.171: .WORD	28741	:
00000000*	00126	:TPASADDR		:

00000004	0012A	U.172: .LONG	<<FPROT_VALUE-U.172>-4>	:
		:TPASMASK		:
0000*	0012E	U.173: .LONG	4	:
		:TPASTARGET		:
7050	00130	U.174: .WORD	<<SYPRO-U.174>-2>	:
		:TPASTYPE		:
00000000*	00132	U.175: .WORD	28752	:
		:TPASADDR		:
00000004	00136	U.176: .LONG	<<FPROT_VALUE-U.176>-4>	:
		:TPASMASK		:
0000*	0013A	U.177: .LONG	4	:
		:TPASTARGET		:
7044	0013C	U.178: .WORD	<<SYPRO-U.178>-2>	:
		:TPASTYPE		:
00000000*	0013E	U.179: .WORD	28740	:
		:TPASADDR		:
00000008	00142	U.180: .LONG	<<FPROT_VALUE-U.180>-4>	:
		:TPASMASK		:
0000*	00146	U.181: .LONG	8	:
		:TPASTARGET		:
704C	00148	U.182: .WORD	<<SYPRO-U.182>-2>	:
		:TPASTYPE		:
00000000*	0014A	U.183: .WORD	28748	:
		:TPASADDR		:
00000008	0014E	U.184: .LONG	<<FPROT_VALUE-U.184>-4>	:
		:TPASMASK		:
0000*	00152	U.185: .LONG	8	:
		:TPASTARGET		:
15F6	00154	U.186: .WORD	<<SYPRO-U.186>-2>	:
		:TPASTYPE		:
0000*	00156	U.187: .WORD	5622	:
		:TPASTARGET		:
	00158	U.188: .WORD	<<U.161-U.188>-2>	:
		:OWPR		:
003A	00158	U.139: .BLKB	0	:
		:TPASTYPE		:
003D	0015A	U.189: .WORD	58	:
		:TPASTYPE		:
15F6	0015C	U.190: .WORD	61	:
		:TPASTYPE		:
0000*	0015E	U.191: .WORD	5622	:
		:TPASTARGET		:
	00160	U.192: .WORD	<<U.161-U.192>-2>	:
		:OWPRO: .BLKB	0	:
7052	00160	:TPASTYPE		:
		U.193: .WORD	28754	:
00000000*	00162	:TPASADDR		:
		U.194: .LONG	<<FPROT_VALUE-U.194>-4>	:
00000010	00166	:TPASMASK		:
		U.195: .LONG	16	:
0000*	0016A	:TPASTARGET		:
		U.196: .WORD	<<OWPRO-U.196>-2>	:
7057	0016C	:TPASTYPE		:
		U.197: .WORD	28759	:
00000000*	0016E	:TPASADDR		:
		U.198: .LONG	<<FPROT_VALUE-U.198>-4>	:
00000020	00172	:TPASMASK		:

0000*	00176	U.199: .LONG	32	:
		:TPASTARGET		:
7045	00178	U.200: .WORD	<<OWPRO-U.200>-2>	:
		:TPASTYPE		:
00000000*	0017A	U.201: .WORD	28741	:
		:TPASADDR		:
00000040	0017E	U.202: .LONG	<<FPROT_VALUE-U.202>-4>	:
		:TPASMASK		:
0000*	00182	U.203: .LONG	64	:
		:TPASTARGET		:
7050	00184	U.204: .WORD	<<OWPRO-U.204>-2>	:
		:TPASTYPE		:
00000000*	00186	U.205: .WORD	28752	:
		:TPASADDR		:
00000040	0018A	U.206: .LONG	<<FPROT_VALUE-U.206>-4>	:
		:TPASMASK		:
0000*	0018E	U.207: .LONG	64	:
		:TPASTARGET		:
7044	00190	U.208: .WORD	<<OWPRO-U.208>-2>	:
		:TPASTYPE		:
00000000*	00192	U.209: .WORD	28740	:
		:TPASADDR		:
00000080	00196	U.210: .LONG	<<FPROT_VALUE-U.210>-4>	:
		:TPASMASK		:
0000*	0019A	U.211: .LONG	128	:
		:TPASTARGET		:
704C	0019C	U.212: .WORD	<<OWPRO-U.212>-2>	:
		:TPASTYPE		:
00000000*	0019E	U.213: .WORD	28748	:
		:TPASADDR		:
00000080	001A2	U.214: .LONG	<<FPROT_VALUE-U.214>-4>	:
		:TPASMASK		:
0000*	001A6	U.215: .LONG	128	:
		:TPASTARGET		:
15F6	001A8	U.216: .WORD	<<OWPRO-U.216>-2>	:
		:TPASTYPE		:
0000*	001AA	U.217: .WORD	5622	:
		:TPASTARGET		:
	001AC	U.218: .WORD	<<U.161-U.218>-2>	:
		:GRPR		:
003A	001AC	U.147: .BLKB	0	:
		:TPASTYPE		:
003D	001AE	U.219: .WORD	58	:
		:TPASTYPE		:
15F6	001B0	U.220: .WORD	61	:
		:TPASTYPE		:
0000*	001B2	U.221: .WORD	5622	:
		:TPASTARGET		:
	001B4	U.222: .WORD	<<U.161-U.222>-2>	:
		:GRPRO: .BLKB	0	:
7052	001B4	:TPASTYPE		:
		U.223: .WORD	28754	:
00000000*	001B6	:TPASADDR		:
		U.224: .LONG	<<FPROT_VALUE-U.224>-4>	:
00000100	001BA	:TPASMASK		:
		U.225: .LONG	256	:
0000*	001BE	:TPASTARGET		:

7057	001C0	U.226: .WORD	<<GRPRO-U.226>-2>	:
		:TPASTYPE		
		U.227: .WORD	28759	:
00000000*	001C2	:TPASADDR		:
		U.228: .LONG	<<FPROT_VALUE-U.228>-4>	:
00000200	001C6	:TPASMASK		:
		U.229: .LONG	512	:
0000*	001CA	:TPASTARGET		:
		U.230: .WORD	<<GRPRO-U.230>-2>	:
7045	001CC	:TPASTYPE		:
		U.231: .WORD	28741	:
00000000*	001CE	:TPASADDR		:
		U.232: .LONG	<<FPROT_VALUE-U.232>-4>	:
00000400	001D2	:TPASMASK		:
		U.233: .LONG	1024	:
0000*	001D6	:TPASTARGET		:
		U.234: .WORD	<<GRPRO-U.234>-2>	:
7050	001D8	:TPASTYPE		:
		U.235: .WORD	28752	:
00000000*	001DA	:TPASADDR		:
		U.236: .LONG	<<FPROT_VALUE-U.236>-4>	:
00000400	001DE	:TPASMASK		:
		U.237: .LONG	1024	:
0000*	001E2	:TPASTARGET		:
		U.238: .WORD	<<GRPRO-U.238>-2>	:
7044	001E4	:TPASTYPE		:
		U.239: .WORD	28740	:
00000000*	001E6	:TPASADDR		:
		U.240: .LONG	<<FPROT_VALUE-U.240>-4>	:
00000800	001EA	:TPASMASK		:
		U.241: .LONG	2048	:
0000*	001EE	:TPASTARGET		:
		U.242: .WORD	<<GRPRO-U.242>-2>	:
704C	001F0	:TPASTYPE		:
		U.243: .WORD	28748	:
00000000*	001F2	:TPASADDR		:
		U.244: .LONG	<<FPROT_VALUE-U.244>-4>	:
00000800	001F6	:TPASMASK		:
		U.245: .LONG	2048	:
0000*	001FA	:TPASTARGET		:
		U.246: .WORD	<<GRPRO-U.246>-2>	:
15F6	001FC	:TPASTYPE		:
		U.247: .WORD	5622	:
0000*	001FE	:TPASTARGET		:
		U.248: .WORD	<<U.161-U.248>-2>	:
	00200	:WOPR		:
		U.155: .BLKB	0	:
003A	00200	:TPASTYPE		:
		U.249: .WORD	58	:
003D	00202	:TPASTYPE		:
		U.250: .WORD	61	:
15F6	00204	:TPASTYPE		:
		U.251: .WORD	5622	:
0000*	00206	:TPASTARGET		:
		U.252: .WORD	<<U.161-U.252>-2>	:
	00208	:WOPRO: .BLKB	0	:
7052	00208	:TPASTYPE		:

00000000*	0020A	U.253: .WORD	28754	:
		:TPASADDR		:
00001000	0020E	U.254: .LONG	<<FPROT_VALUE-U.254>-4>	:
		:TPASMASK		:
0000*	00212	U.255: .LONG	4096	:
		:TPASTARGET		:
7057	00214	U.256: .WORD	<<WOPRO-U.256>-2>	:
		:TPASTYPE		:
00000000*	00216	U.257: .WORD	28759	:
		:TPASADDR		:
00002000	0021A	U.258: .LONG	<<FPROT_VALUE-U.258>-4>	:
		:TPASMASK		:
0000*	0021E	U.259: .LONG	8192	:
		:TPASTARGET		:
7045	00220	U.260: .WORD	<<WOPRO-U.260>-2>	:
		:TPASTYPE		:
00000000*	00222	U.261: .WORD	28741	:
		:TPASADDR		:
00004000	00226	U.262: .LONG	<<FPROT_VALUE-U.262>-4>	:
		:TPASMASK		:
0000*	0022A	U.263: .LONG	16384	:
		:TPASTARGET		:
7050	0022C	U.264: .WORD	<<WOPRO-U.264>-2>	:
		:TPASTYPE		:
00000000*	0022E	U.265: .WORD	28752	:
		:TPASADDR		:
00004000	00232	U.266: .LONG	<<FPROT_VALUE-U.266>-4>	:
		:TPASMASK		:
0000*	00236	U.267: .LONG	16384	:
		:TPASTARGET		:
7044	00238	U.268: .WORD	<<WOPRO-U.268>-2>	:
		:TPASTYPE		:
00000000*	0023A	U.269: .WORD	28740	:
		:TPASADDR		:
00008000	0023E	U.270: .LONG	<<FPROT_VALUE-U.270>-4>	:
		:TPASMASK		:
0000*	00242	U.271: .LONG	32768	:
		:TPASTARGET		:
704C	00244	U.272: .WORD	<<WOPRO-U.272>-2>	:
		:TPASTYPE		:
00000000*	00246	U.273: .WORD	28748	:
		:TPASADDR		:
00008000	0024A	U.274: .LONG	<<FPROT_VALUE-U.274>-4>	:
		:TPASMASK		:
0000*	0024E	U.275: .LONG	32768	:
		:TPASTARGET		:
15F6	00250	U.276: .WORD	<<WOPRO-U.276>-2>	:
		:TPASTYPE		:
0000*	00252	U.277: .WORD	5622	:
		:TPASTARGET		:
	00254	U.278: .WORD	<<U.161-U.278>-2>	:
		:ENDPRO		:
102C	00254	U.161: .BLKB	0	:
		:TPASTYPE		:
0000*	00256	U.279: .WORD	4140	:
		:TPASTARGET		:
		U.280: .WORD	<<NEXTPRO-U.280>-2>	:

```
15F7 00258 :TPASTYPE
      U.281: .WORD 5623
FFFF 0025A :TPASTARGET
      U.282: .WORD -1
      0025C RET_STATE::
      .BLKB 0
      0025C RETSTART:
      .BLKB 0
4DF8 0025C :TPASTYPE
      U.284: .WORD 19960
0000* 0025E :TPASUBEXP
      U.286: .WORD <<U.285-U.286>-2>
00000000* 00260 :TPASADDR
      U.287: .LONG <<RETMIN_VALUE-U.287>-4>
002C 00264 :TPASTYPE
      U.288: .WORD 44
15F7 00266 :TPASTYPE
      U.289: .WORD 5623
FFFF 00268 :TPASTARGET
      U.290: .WORD -1
4DF8 0026A :TPASTYPE
      U.291: .WORD 19960
0000* 0026C :TPASUBEXP
      U.292: .WORD <<U.285-U.292>-2>
00000000* 0026E :TPASADDR
      U.293: .LONG <<RETMAX_VALUE-U.293>-4>
15F7 00272 :TPASTYPE
      U.294: .WORD 5623
FFFF 00274 :TPASTARGET
      U.295: .WORD -1
      00276 :GET_DELTA
      U.285: .BLKB 0
91ED 00276 :TPASTYPE
      U.296: .WORD -28179
00000000V 00278 :TPASACTION
      U.297: .LONG <<TEST_CHAR-U.297>-4>
0000* 0027C :TPASTARGET
      U.298: .WORD <<U.285-U.298>-2>
15F6 0027E :TPASTYPE
      U.299: .WORD 5622
FFFF 00280 :TPASTARGET
      U.300: .WORD -1

      .PSECT _LIB$KEY0$,NOWRT, SHR, PIC,1
00000 DC_KEYS::
      .BLKB 0
00000 :TPASKEY0
      U.1: .BLKB 0
0000* 00000 :TPASKEY
      U.10: .WORD <U.9-U.1>
0000* 00002 :TPASKEY
      U.16: .WORD <U.15-U.1>
0000* 00004 :TPASKEY
      U.22: .WORD <U.21-U.1>
0000* 00006 :TPASKEY
      U.28: .WORD <U.27-U.1>
```



```

00008 OWNER_KEYS::
00008 ;TPASKEY0 .BLKB 0
0000* 00008 U.38: .BLKB 0
0000* 00008 ;TPASKEY U.40: .WORD <U.39-U.38> ;
0000A ;TPASKEY .BLKB 2
0000C JOURNAL_KEYS::
0000C ;TPASKEY0 .BLKB 0
0000* 0000C U.58: .BLKB 0
0000* 0000C ;TPASKEY U.60: .WORD <U.59-U.58> ;
0000* 0000E ;TPASKEY U.66: .WORD <U.65-U.58> ;
0000* 00010 ;TPASKEY U.72: .WORD <U.71-U.58> ;
0000* 00012 ;TPASKEY U.78: .WORD <U.77-U.58> ;
0000* 00014 ;TPASKEY U.84: .WORD <U.83-U.58> ;
0000* 00016 ;TPASKEY U.90: .WORD <U.89-U.58> ;
0000* 00018 ;TPASKEY U.96: .WORD <U.95-U.58> ;
0000* 0001A ;TPASKEY U.102: .WORD <U.101-U.58> ;
0000* 0001C ;TPASKEY U.108: .WORD <U.107-U.58> ;
0000* 0001E ;TPASKEY U.114: .WORD <U.113-U.58> ;
00020 PRO_KEYS::
00020 ;TPASKEY0 .BLKB 0
0000* 00020 U.124: .BLKB 0
0000* 00020 ;TPASKEY U.126: .WORD <U.125-U.124> ;
0000* 00022 ;TPASKEY U.134: .WORD <U.133-U.124> ;
0000* 00024 ;TPASKEY U.142: .WORD <U.141-U.124> ;
0000* 00026 ;TPASKEY U.150: .WORD <U.149-U.124> ;
00028 RET_KEYS::
00028 ;TPASKEY0 .BLKB 0
00028 U.283: .BLKB 0
.PSECT $OWNS,NOEXE,2
00000003 00000008 00000 TPARSE_BLOCK:
00008 ;TPASKEY0 .LONG 8, 3 ;
00024 PRIVS: .BLKB 8
QUAL_ACCESS== 1
QUAL_BACKUP== 2

```

QUAL_NOBACKUP== 3
QUAL_CONFIRM== 4
QUAL_DATA== 5
QUAL_ENTER== 6
QUAL_EOF== 7
QUAL_ERASE== 8
QUAL_NOERASE== 9
QUAL_EXPI== 10
QUAL_EXTE== 11
QUAL_FPROT== 12
QUAL_GBUF== 13
QUAL_JOURNAL== 14
QUAL_LABEL== 15
QUAL_LOG== 16
QUAL_NODI== 17
QUAL_OWNER== 18
QUAL_PARENT== 19
QUAL_REMOVE== 20
QUAL_RETENT== 21
QUAL_RPROT== 22
QUAL_TRUNC== 23
QUAL_USERNAME== 24
QUAL_VPROT== 25
QUAL_VRSN== 26
QUAL_WINDOWS== 27
DATA_READ== 1
DATA_NOREAD== 2
DATA_WRITE== 3
DATA_NOWRITE== 4
JRNL_AI== 1
JRNL_NOAI== 2
JRNL_AT== 3
JRNL_NOAT== 4
JRNL_BI== 5
JRNL_NOBI== 6
JRNL_RU== 7
JRNL_NORU== 8
JRNL_RUM== 9
JRNL_NORUM== 10

.EXTRN CALCULATE MAX, SYSSFAO
.EXTRN LIBSTPARSE, LIBSCVT TIME
.EXTRN LIBSCVT DTIME, LIBSCVT_DTB
.EXTRN RENAME BUF, FILE NAME
.EXTRN FILE RCF, SETSL STATUS
.EXTRN SETSA CLIWORK, SETFILESFLAGS
.EXTRN SETFILESDFLAGS, SETFILESJFLAGS
.EXTRN ACC VALUE, EXP VALUE
.EXTRN EXTE VALUE, FPROT VALUE
.EXTRN GBUF VALUE, LABEL VALUE
.EXTRN UIC VALUE, GROUP
.EXTRN MEMBER, USER VALUE
.EXTRN RETMIN VALUE, RETMAX VALUE
.EXTRN VPROT VALUE, VRSN VALUE
.EXTRN WINDOW VALUE, SETS FACILITY
.EXTRN SETS OPERREQ, SETS_WRITEERR
.EXTRN SYSSSETPRV


```

L 3
16-Sep-1984 01:06:01 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:08:59 [CLIUTL.SRC]SETACT.B32:1

```

```
.PSECT SCODES,NOWRT,2
```

Address	Instruction	Comment	Hex
00000000	003C 00000	ENTRY ACC_ACT, Save R2,R3,R4,R5	0396
00000000	00 9E 00002	MOVAB ACC_VALUE, R5	
00000000	00 9E 00009	MOVAB LIB\$STOP, R4	
00000000	08 C2 00010	SUBL2 #8, SP	
00000000	EF 9F 00013	PUSHAB PRIVS	0421
00000000	01 DD 00019	PUSHL #1	
00000000	01 7D 0001B	MOVQ #1, -(SP)	
00000000	04 FB 0001E	CALLS #4, SYSS\$SETPRV	
00000000	50 D0 00025	MOVL R0, STATUS	
00000000	53 E8 00028	BLBS STATUS, 1\$	
00000000	53 DD 0002B	PUSHL STATUS	0422
00000000	01 FB 0002D	CALLS #1, LIB\$STOP	
00000000	02 E0 00030	BBS #2, PRIVS+2, 2\$	0424
00000000	8F DD 00038	PUSHL #SET\$OPERR\$EQ	
00000000	01 FB 0003E	CALLS #1, LIB\$STOP	
00000000	03 D0 00041	MOVL #3, ACC_VALUE	0430
00000000	AC D0 00044	MOVL OPTION_BLOCK, R2	0435
00000000	A2 B5 00048	TSTW 4(R2)	
00000000	3C 13 0004B	BEQL 6\$	
00000000	55 DD 0004D	PUSHL R5	0441
00000000	A2 DD 0004F	PUSHL 8(R2)	0442
00000000	A2 3C 00052	MOVZWL 4(R2), -(SP)	0441
00000000	03 FB 00056	CALLS #3, LIB\$CVT_DTB	
00000000	50 D0 0005D	MOVL R0, STATUS	
00000000	53 E8 00060	BLBS STATUS, 3\$	
00000000	53 DD 00063	PUSHL STATUS	0447
00000000	14 11 00065	BRB 5\$	0446
00000000	65 D0 00067	MOVL ACC_VALUE, R0	0450
00000000	09 19 0006A	BLSS 4\$	
00000000	50 D1 0006C	CMPL R0, #255	0452
00000000	14 15 00073	BLEQ 6\$	
00000000	8F DD 00075	PUSHL #<<<SET\$FACILITY@16>+4584>+2>	0456
00000000	A2 9F 0007B	PUSHAB 4(R2)	0455
00000000	01 DD 0007E	PUSHL #1	
00000000	8F DD 00080	PUSHL #<<<SET\$FACILITY@16>+4344>+2>	
00000000	04 FB 00086	CALLS #4, LIB\$STOP	
00000000	01 D0 00089	MOVL #1, R0	0458
00000000	04 0008C	RET	0459

; Routine Size: 141 bytes, Routine Base: \$CODES + 0000

SETACT
V04-000

M 3
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VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETACT.B32;1

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```
: 472      0460 1 GLOBAL ROUTINE back_act =  
: 473      0461 1 ++  
: 474      0462 1  
: 475      0463 1 This is the action routine for the /BACKUP qualifier. It simply  
: 476      0464 1 sets the correct bit in the flags word.  
: 477      0465 1  
: 478      0466 1 --  
: 479      0467 2 BEGIN  
: 480      0468 2 setfile$flags[qual_backup] = true;  
: 481      0469 2 RETURN true;  
: 482      0470 1 END;
```

```
00000000G 00      0000 00000  
50      04 88 00002  
01 D0 00009  
04 0000C
```

```
.ENTRY BACK_ACT, Save nothing  
BISB2 #4, SETFILE$FLAGS  
MOVL #1, R0  
RET
```

```
: 0460  
: 0468  
: 0469  
: 0470
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 008D

SETACT
V04-000

N 3
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```
: 484      0471 1 GLOBAL ROUTINE noback_act =
: 485      0472 1 |++
: 486      0473 1 |
: 487      0474 1 | This is the action routine for the /NOBACKUP qualifier. It simply
: 488      0475 1 | sets the correct bit in the flags word.
: 489      0476 1 |
: 490      0477 1 |--
: 491      0478 2 BEGIN
: 492      0479 2 setfile$flags[qual_nobackup] = true;
: 493      0480 2 RETURN true;
: 494      0481 1 END;
```

```
00000000G 00      0000 00000
08 88 00002
01 D0 00009
04 0000C
```

```
.ENTRY NOBACK ACT, Save nothing
BISB2 #8, SETFILE$FLAGS
MOVL #1, R0
RET
```

```
: 0471
: 0479
: 0480
: 0481
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 009A

```

: 496 0482 1 GLOBAL ROUTINE data_act (option_block,callback) =
: 497 0483 1 ++
: 498 0484 1
: 499 0485 1 This is the action routine for the /DATA_CHECK qualifier. It checks to see
: 500 0486 1 if any options were set. If not, it defaults to DATA_CHECK=WRITE.
: 501 0487 1
: 502 0488 1 --
: 503 0489 2 BEGIN
: 504 0490 2
: 505 0491 2 LOCAL
: 506 0492 2 status;
: 507 0493 2
: 508 0494 2 MAP
: 509 0495 2 option_block : REF BBLOCK;
: 510 0496 2
: 511 0497 2 IF .option_block[cli$w_qdvalsiz] EQL 0
: 512 0498 2 THEN setfile$dflags[data_write] = true
: 513 0499 2
: 514 0500 2 ELSE
: 515 0501 2 BEGIN
: 516 0502 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
: 517 0503 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
: 518 0504 2 IF NOT (status = lib$tparse(tparse_block,
: 519 0505 2 dc_state,dc_keys))
: 520 0506 2 THEN
: 521 0507 2 BEGIN
: 522 0508 2 SIGNAL( set$_facility^16 + shr$_syntax + sts$_error,
: 523 0509 2 1,
: 524 0510 2 option_block[cli$q_qdvaldesc],
: 525 0511 2 .status);
: 526 0512 2 RETURN .status;
: 527 0513 2 END;
: 528 0514 2 END;
: 529 0515 2 RETURN true;
: 530 0516 1 END;
```

			001C 00000	.ENTRY DATA ACT, Save R2,R3,R4	
	54	00000000'	EF 9E 00002	MOVAB TPARSE_BLOCK+8, R4	
	52	04	AC D0 00009	MOVL OPTION_BLOCK, R2	
		04	A2 B5 0000D	TSTW 4(R2)	
			09 12 00010	BNEQ 1\$	
00000000G	00		08 88 00012	BISB2 #8, SETFILE\$DFLAGS	
			3D 11 00019	BRB 2\$	
	64	04	A2 3C 0001B	MOVZWL 4(R2), TPARSE_BLOCK+8	
04	A4	08	A2 D0 0001F	MOVL 8(R2), TPARSE_BLOCK+12	
		00000000'	EF 9F 00024	PUSHAB DC_KEYS	
		00000000'	EF 9F 0002A	PUSHAB DC_STATE	
		F8	A4 9F 00030	PUSHAB TPARSE_BLOCK	
00000000G	00		03 FB 00033	CALLS #3, LIB\$TPARSE	
	53		50 D0 0003A	MOVL R0, STATUS	
	18		53 E8 0003D	BLBS STATUS, 2\$	
			53 DD 00040	PUSHL STATUS	
		04	A2 9F 00042	PUSHAB 4(R2)	

```

: 0482
: 0497
: 0498
: 0502
: 0503
: 0504
:
: 0511
: 0510
```


SETACT
V04-000

C 4
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[CLIUTL.SRC]SETACT.B32;1

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00000000G	00	00000000*	01	DD	00045	PUSHL	#1	:
	50		8F	DD	00047	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	:
			04	FB	0004D	CALLS	#4, LIB\$SIGNAL	:
			53	DO	00054	MOVL	STATUS, R0	:
	50			04	00057	RET		:
			01	DO	00058 2\$:	MOVL	#1, R0	:
			04	0005B		RET		:

0512
0515
0516

; Routine Size: 92 bytes, Routine Base: \$CODE\$ + 00A7

```
532 0517 1 GLOBAL ROUTINE enter_act (option_block,callback) =
533 0518 1 ++
534 0519 1
535 0520 1 This is the action routine for the /ENTER qualifier.
536 0521 1 The new synonym is collected.
537 0522 1
538 0523 1 --
539 0524 2 BEGIN
540 0525 2
541 0526 2 MAP
542 0527 2 option_block : REF BBLOCK;
543 0528 2
544 0529 2
545 0530 2
546 0531 2 Get the expanded file string
547 0532 2
548 0533 2
549 0534 2 CH$MOVE(.option_block[cli$w_qdvalsiz], ! Move file string
550 0535 2 .option_block[cli$a_qdvaladr],
551 0536 2 rename_buf);
552 0537 2
553 0538 2 file_name[0] = .option_block[cli$w_qdvalsiz]; ! Store length
554 0539 2 file_name[1] = .option_block[cli$a_qdvaladr]; ! and address
555 0540 2
556 0541 2 RETURN true;
557 0542 1 END;
```

```
00000000G 00 08 B6 04 AC D0 00002
00000000G 00 00 04 A6 28 00006
00000000G 00 00 04 A6 3C 00010
50 08 A6 D0 00018
01 D0 00020
04 00023
```

```
.ENTRY ENTER ACT, Save R2,R3,R4,R5,R6
MOVL OPTION_BLOCK, R6
MOVC3 4(R6), 28(R6), RENAME_BUF
MOVZWL 4(R6), FILE_NAME
MOVL 8(R6), FILE_NAME+4
MOVL #1, R0
RET
```

```
: 0517
: 0534
: 0538
: 0539
: 0541
: 0542
```

; Routine Size: 36 bytes, Routine Base: \$CODE\$ + 0103

SETACT
V04-000

E 4
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[CLIUTL.SRC]SETACT.B32;1

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```
: 559      0543 1 GLOBAL ROUTINE erase_act =  
: 560      0544 1 ++  
: 561      0545 1 |  
: 562      0546 1 | This is the action routine for the /ERASE qualifier. It simply  
: 563      0547 1 | sets the correct bit in the flags word.  
: 564      0548 1 |  
: 565      0549 1 |--  
: 566      0550 2 BEGIN  
: 567      0551 2 setfile$flags[qual_erase] = true;  
: 568      0552 2 RETURN true;  
: 569      0553 1 END;
```

```
00000000G 00      0000 0000  
01 88 00002  
01 D0 00009  
04 0000C
```

```
.ENTRY ERASE ACT, Save nothing  
BISB2 #1, SETFILE$FLAGS+1  
MOVL #1, R0  
RET
```

```
: 0543  
: 0551  
: 0552  
: 0553
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0127

SETACT
V04-000

F 4
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[CLIUTL.SRC]SETACT.B32;1

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```
: 571      0554 1 GLOBAL ROUTINE noerase_act =  
: 572      0555 1 ++  
: 573      0556 1 :  
: 574      0557 1 This is the action routine for the /NOERASE qualifier. It simply  
: 575      0558 1 sets the correct bit in the flags word.  
: 576      0559 1 :  
: 577      0560 1 --  
: 578      0561 2 BEGIN  
: 579      0562 2 setfile$flags[qual_noerase] = true;  
: 580      0563 2 RETURN true;  
: 581      0564 1 END;
```

```
00000000G 00      0000 00000  
50      02 88 00002  
01 D0 00009  
04 0000C  
.ENTRY NOERASE ACT, Save nothing  
BISB2 #2, SETFILE$FLAGS+1  
MOVL #1, R0  
RET
```

```
: 0554  
: 0562  
: 0563  
: 0564
```

; Routine Size: 13 bytes, Routine Base: \$CODE\$ + 0134


```
583 0565 1 GLOBAL ROUTINE exp_act (option_block,callback) =
584 0566 1 ++
585 0567 1
586 0568 1 This is the action routine for the /EXPIRATION qualifier.
587 0569 1 If no value is given, exit with a syntax error.
588 0570 1
589 0571 1 --
590 0572 1 BEGIN
591 0573 1
592 0574 1 LOCAL
593 0575 1     status,
594 0576 1     desc : BBLOCK[dsc$c_s_bln];
595 0577 1
596 0578 1 MAP
597 0579 1     option_block : REF BBLOCK;           ! Define the CLI options block
598 0580 1
599 0581 1
600 0582 1 Get the date, signalling a syntax error if no good.
601 0583 1
602 0584 1
603 0585 1 desc[dsc$w_length] = .option_block[cli$q_dvalsiz];
604 0586 1 desc[dsc$a_pointer] = .option_block[cli$a_qdvaladr];
605 0587 1 IF NOT (status = LIB$CVT_TIME(desc,exp_value))
606 0588 1 THEN
607 0589 1     BEGIN
608 0590 1     SIGNAL_STOP( set$facility^16 + shr$s_syntax + sts$k_error,
609 0591 1                   1,
610 0592 1                   option_block[cli$q_qdvaldesc],
611 0593 1                   .status);
612 0594 1     RETURN .status;
613 0595 1     END
614 0596 1 ELSE RETURN true;
615 0597 1 END;
```

			000C 00000	.ENTRY	EXP_ACT, Save R2,R3	: 0565
	5E		08 C2 00002	SUBL2	#8,-SP	
	52	04	AC D0 00005	MOVL	OPTION_BLOCK, R2	: 0585
	6E	04	A2 B0 00009	MOVW	4(R2),-DESC	
	AE	08	A2 D0 0000D	MOVL	8(R2),-DESC+4	: 0586
		00000000G	00 9F 00012	PUSHAB	EXP_VALUE	: 0587
		04	AE 9F 00018	PUSHAB	DESC	
00000000G	00		02 FB 0001B	CALLS	#2, LIB\$CVT_TIME	
	53		50 D0 00022	MOVL	R0, STATUS	
	18		53 E8 00025	BLBS	STATUS, 1\$	
		04	53 DD 00028	PUSHL	STATUS	: 0593
			A2 9F 0002A	PUSHAB	4(R2)	: 0592
			01 DD 0002D	PUSHL	#1	
		00000000*	8F DD 0002F	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
00000000G	00		04 FB 00035	CALLS	#4, LIB\$STOP	
	50		53 D0 0003C	MOVL	STATUS, R0	: 0596
			04 0003F	RET		
	50		01 D0 00040 1\$:	MOVL	#1, R0	
			04 00043	RET		: 0597

SETACT
V04-000

H 4
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[CLIUTL.SRC]SETACT.B32;1

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; Routine Size: 68 bytes, Routine Base: \$CODE\$ + 0141

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V04-000

1 4
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[CLIUTL.SRC]SETACT.B32;1

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```
: 617      0598 1 GLOBAL ROUTINE noexp_act =
: 618      0599 1 ++
: 619      0600 1
: 620      0601 1 This is the action routine for the /NOEXPIRATION_DATE qualifier.
: 621      0602 1 It supplies an expiration date of zero.
: 622      0603 1
: 623      0604 1 --
: 624      0605 2 BEGIN
: 625      0606 2
: 626      0607 2 CHSFILL(0,8,exp_value);      ! Zero out the expiration date
: 627      0608 2 setfile$flags[qual_expi] = true;      ! Set the expiration flag on
: 628      0609 2
: 629      0610 2 RETURN true;
: 630      0611 1 END;
```

08	00	6E	003C 00000	.ENTRY NOEXP_ACT, Save R2,R3,R4,R5	: 0598
			00 2C 00002	MOVCS #0, (SP), #0, #8, EXP_VALUE	: 0607
	00000000G	00	04 88 0000C	BISB2 #4, SETFILE\$FLAGS+1	: 0608
		50	01 D0 00013	MOVL #1, R0	: 0610
			04 00016	RET	: 0611

; Routine Size: 23 bytes, Routine Base: \$CODE\$ + 0185

```

632 0612 1 GLOBAL ROUTINE ext_act (option_block,callback) =
633 0613 1 ++
634 0614 1
635 0615 1 This is the action routine for the /EXTENSION qualifier. If no value is
636 0616 1 specified, the default value of 0 is used.
637 0617 1
638 0618 1 --
639 0619 1 BEGIN
640 0620 1
641 0621 1 LOCAL
642 0622 1     status,
643 0623 1     desc : BBLOCK[dsc$cs_bln];
644 0624 1
645 0625 1 MAP
646 0626 1     option_block : REF BBLOCK;           ! Define the CLI options block
647 0627 1
648 0628 1 exte_value = 0;                         ! Set up default
649 0629 1
650 0630 1
651 0631 1 See if a value was specified. If not, then use the default.
652 0632 1
653 0633 1 IF .option_block[cli$w_qdvalsiz] EQL 0
654 0634 1 THEN RETURN true;
655 0635 1
656 0636 1
657 0637 1 If the value is there, convert it and return
658 0638 1
659 0639 1 IF NOT (status = LIB$CVT_DTB(.option_block[cli$w_qdvalsiz],
660 0640 1     .option_block[cli$a_qdvaladr],
661 0641 1     exte_value))
662 0642 1 THEN
663 0643 1     BEGIN
664 0644 1     SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error,
665 0645 1     1,
666 0646 1     option_block[cli$q_qdvaldesc],
667 0647 1     .status);
668 0648 1     END
669 0649 1 ELSE
670 0650 1     BEGIN
671 0651 1     IF NOT (.exte_value GEQ 0
672 0652 1     AND
673 0653 1     .exte_value LEQ 65535)
674 0654 1     THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error,
675 0655 1     1,
676 0656 1     option_block[cli$q_qdvaldesc],
677 0657 1     set$_facility^16 + shr$_valerr + sts$k_error);
678 0658 1     END;
679 0659 1
680 0660 1 RETURN true;
681 0661 1 END;
```

53 00000000G 00 000C 00000
00 9E 00002.ENTRY EXT_ACT, Save R2,R3
MOVAB EXTE_VALUE, R3: 0612
:

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V04-000

K 4
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5E		08	C2	00009	SUBL2	#8, SP	..	
		63	D4	0000C	CLRL	EXTE_VALUE	..	0628
52		04	AC	D0	0000E	MOVL	OPTION_BLOCK, R2	0633
		04	A2	B5	00012	TSTW	4(R2)	
			3D	13	00015	BEQL	4\$	
			53	DD	00017	PUSHL	R3	0639
		08	A2	DD	00019	PUSHL	8(R2)	0640
		04	A2	3C	0001C	MOVZWL	4(R2), -(SP)	0639
00000000G	7E		03	FB	00020	CALLS	#3, LIB\$CVT_DTB	
	00		50	E8	00027	BLBS	STATUS, 1\$	
	04		50	DD	0002A	PUSHL	STATUS	0647
			14	11	0002C	BRB	3\$	0646
	50		63	D0	0002E	1\$: MOVL	EXTE_VALUE, R0	0651
			09	19	00031	BLSS	2\$	
0000FFFF	8F		50	D1	00033	CMPL	R0, #65535	0653
			18	15	0003A	BLEQ	4\$	
		00000000*	8F	DD	0003C	2\$: PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	0657
		04	A2	9F	00042	3\$: PUSHAB	4(R2)	0656
			01	DD	00045	PUSHL	#1	
		00000000*	8F	DD	00047	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	
00000000G	00		04	FB	0004D	CALLS	#4, LIB\$STOP	
	50		01	D0	00054	4\$: MOVL	#1, R0	0660
			04	00057	RET			0661

; Routine Size: 88 bytes, Routine Base: \$CODE\$ + 019C

```
0662 1 GLOBAL ROUTINE fprot_act (option_block,callback) =
0663 1 ++
0664 1
0665 1 This is the action routine for the /FILE PROTECTION qualifier of
0666 1 SET VOLUME. The protection is parsed and stored away. If the
0667 1 protection is not valid, a fatal error message is issued.
0668 1
0669 1 --
0670 2 BEGIN
0671 2
0672 2 LOCAL status; ! Status return
0673 2
0674 2 MAP option_block : REF BBLOCK; ! Define the option block
0675 2
0676 2 !
0677 2 ! Stuff the TPARSE block with the string
0678 2
0679 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
0680 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
0681 2
0682 2 fprot_value = 0; ! Initialize file protection value
0683 2
0684 2 !
0685 2 ! Now to parse the protection given. When finished, FPROT_VALUE will
0686 2 ! have the following values:
0687 2
0688 2 FPROT_VALUE[low_word] = protection value
0689 2 FPROT_VALUE[high_word] = group mask i.e. SYSTEM, OWNER, GROUP, WORLD
0690 2
0691 2 IF NOT (status = LIB$TPARSE(tparse_block,
0692 2 pro_state,
0693 2 pro_keys))
0694 2 THEN SIGNAL_STOP(set$_facility^T6 + shr$_syntax + sts$_error,
0695 2 1,
0696 2 option_block[cli$q_qdvaldesc],
0697 2 .status);
0698 2
0699 1 RETURN true;
0700 1 END;
```

```
000C 00000
53 00000000' EF 9E 00002
52 04 AC D0 00009
63 04 A2 3C 0000D
04 A3 08 A2 D0 00011
00000000G 00 D4 00016
00000000' EF 9F 0001C
00000000' EF 9F 00022
F8 A3 9F 00028
00000000G 00 03 FB 0002B
14 50 E8 00032
50 DD 00035
04 A2 9F 00037
01 DD 0003A
```

```
.ENTRY FPROT_ACT, Save R2,R3
MOVAB TPARSE_BLOCK+8, R3
MOVL OPTION_BLOCK, R2
MOVZWL 4(R2), TPARSE_BLOCK+8
MOVL 8(R2), TPARSE_BLOCK+12
CLRL FPROT_VALUE
PUSHAB PRO_KEYS
PUSHAB PRO_STATE
PUSHAB TPARSE_BLOCK
CALLS #3, LIB$TPARSE
BLBS STATUS, 1$
PUSHL STATUS
PUSHAB 4(R2)
PUSHL #1
```

```
0662
0679
0680
0682
0691
0697
0696
```


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00000000G	00	00000000*	8F	DD	0003C	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>
	50		04	FB	00042	CALLS	#4, LIB\$STOP
			01	DO	00049	MOVL	#1, R0
			04	0004C	1\$:	RET	

:
:
:
: 0698
: 0699

; Routine Size: 77 bytes, Routine Base: \$CODE\$ + 01F4

```

: 722 0700 1 GLOBAL ROUTINE gbuf_act (option_block,callback) =
: 723 0701 1 ++
: 724 0702 1
: 725 0703 1 This is the action routine for the GLOBAL_BUFFER qualifier. The number of
: 726 0704 1 global buffers desired is collected.
: 727 0705 1
: 728 0706 1 --
: 729 0707 2 BEGIN
: 730 0708 2
: 731 0709 2 LOCAL
: 732 0710 2 status,
: 733 0711 2 desc : BBLOCK[dsc$c_s_bln];
: 734 0712 2
: 735 0713 2 MAP
: 736 0714 2 option_block : REF BBLOCK; ! Define the CLI options block
: 737 0715 2
: 738 0716 2
: 739 0717 2 Convert the value given (in ASCII) to a numeric value.
: 740 0718 2
: 741 0719 2 IF NOT (status = LIB$CVT_DTB(.option_block[cli$q_dvalsiz],
: 742 0720 2 .option_block[cli$a_qdvaladr],
: 743 0721 2 gbuf_value))
: 744 0722 2 THEN
: 745 0723 2 BEGIN
: 746 0724 2 SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
: 747 0725 2 1,
: 748 0726 2 option_block[cli$q_qdvaldesc],
: 749 0727 2 .status);
: 750 0728 2 END
: 751 0729 2 ELSE
: 752 0730 2 BEGIN
: 753 0731 2
: 754 0732 2 If the value is not a word or less in length, signal an error.
: 755 0733 2
: 756 0734 2 IF NOT (.gbuf_value GEQ 0 AND .gbuf_value LEQ 65535)
: 757 0735 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
: 758 0736 2 1,
: 759 0737 2 option_block[cli$q_qdvaldesc],
: 760 0738 2 set$_facility^16 + shr$_valerr + sts$_error);
: 761 0739 2 END;
: 762 0740 2
: 763 0741 2 RETURN true;
: 764 0742 1 END;
```

			000C 00000	.ENTRY	GBUF_ACT, Save R2,R3	
53	00000000G	00	9E 00002	MOVAB	GBUF_VALUE, R3	
5E		08	C2 00009	SUBL2	#8, SP	
		53	DD 0000C	PUSHL	R3	
52		04	AC D0 0000E	MOVL	OPTION_BLOCK, R2	
		08	A2 DD 00012	PUSHL	8(R2)	
7E		04	A2 3C 00015	MOVZWL	4(R2), -(SP)	
00000000G		00	03 FB 00019	CALLS	#3, LIB\$CVT_DTB	
		04	50 EB 00020	BLBS	STATUS, 1\$	

```

: 0700
:
: 0719
: 0720
: 0719
:
```


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		50	DD	00023	PUSHL	STATUS	:	0727	
		14	11	00025	BRB	3\$:	0726	
	50	63	D0	00027	1\$:	MOVL	GBUF_VALUE, R0	:	0734
		09	19	0002A	BLSS	2\$:	:	
0000FFFF	8F	50	D1	0002C	CMPL	R0, #65535	:	:	
		18	15	00033	BLEQ	4\$:	:	
	00000000*	8F	DD	00035	2\$:	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	:	0738
	04	A2	9F	0003B	3\$:	PUSHAB	4(R2)	:	0737
		01	DD	0003E	PUSHL	#1	:	:	
	00000000*	8F	DD	00040	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	:	:	
00000000G	00	04	FB	00046	CALLS	#4, LIB\$STOP	:	:	
	50	01	D0	0004D	4\$:	MOVL	#1, R0	:	0741
		04	00050	RET			:	0742	

; Routine Size: 81 bytes, Routine Base: \$CODE\$ + 0241

```
766 0743 1 GLOBAL ROUTINE journal_act (option_block,callback) =
767 0744 1 |++
768 0745 1 |
769 0746 1 | This is the action routine for the /JOURNAL qualifier. Based on the
770 0747 1 | journal types set, specific journaling bits are set.
771 0748 1 |
772 0749 1 |--
773 0750 2 BEGIN
774 0751 2
775 0752 2 LOCAL
776 0753 2     status;
777 0754 2
778 0755 2 MAP
779 0756 2     option_block : REF BBLOCK;
780 0757 2
781 0758 2 |
782 0759 2 | Use TPARSE to parse the journal list.
783 0760 2 |
784 0761 2
785 0762 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$q_dvalsiz];
786 0763 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
787 0764 2
788 0765 3 IF NOT (status = LIB$TPARSE(tparse_block, journal_state, journal_keys))
789 0766 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error,
790 0767 2     1,
791 0768 2     option_block[cli$q_qdvaldesc],
792 0769 2     .status);
793 0770 2 |
794 0771 2 | If both RU and RUM were specified, then signal a syntax error.
795 0772 2 |
796 0773 2
797 0774 3 IF (.setfile$jflags[jrnl_ru] AND .setfile$jflags[jrnl_rum])
798 0775 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$k_error,
799 0776 2     1,
800 0777 2     option_block[cli$q_qdvaldesc],
801 0778 2     set$_facility^16 + shr$_confqual + sts$k_error);
802 0779 2
803 0780 2 RETURN true;
804 0781 1 END;
```

```
001C 00000
54 00000000G 00 9E 00002
53 00000000' EF 9E 00009
52 04 AC D0 00010
63 04 A2 3C 00014
04 A3 08 A2 D0 00018
00000000' EF 9F 0001D
00000000' EF 9F 00023
F8 A3 9F 00029
00000000G 00 03 FB 0002C
10 50 E8 00033
50 DD 00036
04 A2 9F 00038
```

```
.ENTRY JOURNAL_ACT, Save R2,R3,R4
MOVAB LIB$STOP, R4
MOVAB TPARSE_BLOCK+8, R3
MOVL OPTION_BLOCK, R2
MOVZWL 4(R2), TPARSE_BLOCK+8
MOVL 8(R2), TPARSE_BLOCK+12
PUSHAB JOURNAL_KEYS
PUSHAB JOURNAL_STATE
PUSHAB TPARSE_BLOCK
CALLS #3, LIB$TPARSE
BLBS STATUS, 1$
PUSHL STATUS
PUSHAB 4(R2)
```

```
: 0743
:
:
: 0762
:
: 0763
: 0765
:
:
:
:
: 0769
: 0768
```


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V04-000

D 5
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		01	DD	0003B	PUSHL	#1		:
		8F	DD	0003D	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>		:
64	00000000*	04	FB	00043	CALLS	#4, LIB\$STOP		:
	00000000G	00	95	00046	TSTB	SETFILES\$JFLAGS	1\$:	0774
		1C	18	0004C	BGEQ	2\$:
14	00000000G	00	01	E1	BBC	#1, SETFILES\$JFLAGS+1, 2\$:
	00000000*	8F	DD	00056	PUSHL	#<<<SET\$ _FACILITY@16>+4832>+2>		0778
	04	A2	9F	0005C	PUSHAB	4(R2)		0777
		01	DD	0005F	PUSHL	#1		:
	00000000*	8F	DD	00061	PUSHL	#<<<SET\$ _FACILITY@16>+4344>+2>		:
64		04	FB	00067	CALLS	#4, LIB\$STOP		:
50		01	D0	0006A	MOVL	#1, R0	2\$:	0780
		04	0006D	RET				0781

; Routine Size: 110 bytes, Routine Base: \$CODE\$ + 0292

```

: 806 0782 1 GLOBAL ROUTINE label_act (option_block, callback) =
: 807 0783 1 |++
: 808 0784 1 |
: 809 0785 1 | This is the action routine for the LABEL qualifier of SET VOLUME. It
: 810 0786 1 | retrieves the value of the string, checks that it is no longer than
: 811 0787 1 | twelve characters, and stores length and location in LABEL_VALUE.
: 812 0788 1 |
: 813 0789 1 |--
: 814 0790 2 BEGIN
: 815 0791 2
: 816 0792 2 LOCAL status; ! Status return
: 817 0793 2
: 818 0794 2 MAP option_block : REF BBLOCK; ! Define the cli block
: 819 0795 2
: 820 0796 2 |
: 821 0797 2 | Check that the string is no longer than twelve characters.
: 822 0798 2
: 823 0799 2 IF .option_block[cli$w_qdvalsiz] GTR 12
: 824 0800 2 THEN SIGNAL_STOP(set$_facility*16 + shr$_syntax + sts$_error,
: 825 0801 2 1,
: 826 0802 2 option_block[cli$q_qdvaldesc],
: 827 0803 2 set$_facility*16 + shr$_valerr + sts$_error);
: 828 0804 2 |
: 829 0805 2 | Store the location and length in LABEL_VALUE
: 830 0806 2
: 831 0807 2 label_value[0] = .option_block[cli$w_qdvalsiz];
: 832 0808 2 label_value[1] = .option_block[cli$a_qdvaladr];
: 833 0809 2
: 834 0810 2 RETURN true;
: 835 0811 1 END;
```

				0004 00000	.ENTRY LABEL ACT, Save R2	: 0782
52	04	AC	D0	00002	MOVL OPTION_BLOCK, R2	: 0799
0C	04	A2	B1	00006	CMPL 4(R2), #12	
		18	1B	0000A	BLEQU 1\$	
	00000000*	8F	DD	0000C	PUSHL #<<<SET\$_FACILITY@16>+4584>+2>	: 0803
	04	A2	9F	00012	PUSHAB 4(R2)	: 0802
		01	DD	00015	PUSHL #1	
	00000000*	8F	DD	00017	PUSHL #<<<SET\$_FACILITY@16>+4344>+2>	
00000000G	00	04	FB	0001D	CALLS #4, LIB\$STOP	
00000000G	00	04	A2	3C 00024 1\$:	MOVZWL 4(R2), LABEL_VALUE	: 0807
00000000G	00	08	A2	D0 0002C	MOVL 8(R2), LABEL_VALUE+4	: 0808
	50	01	D0	00034	MOVL #1, R0	: 0810
		04	D0	00037	RET	: 0811

; Routine Size: 56 bytes, Routine Base: \$CODE\$ + 0300


```
837 0812 1 GLOBAL ROUTINE owner_act (option_block,callback) =
838 0813 1 |++
839 0814 1 |
840 0815 1 | This is the action routine for the OWNER_UIC qualifier. The input is
841 0816 1 | parsed to obtain the group and member numbers of the UIC.
842 0817 1 |
843 0818 1 |--
844 0819 2 BEGIN
845 0820 2
846 0821 2 LOCAL
847 0822 2 status; ! Status
848 0823 2
849 0824 2 MAP
850 0825 2 option_block : REF BBLOCK;
851 0826 2
852 0827 2 uic_value = 0; ! Set the UIC value to zero initially
853 0828 2
854 0829 2 |
855 0830 2 | Check to see if UIC specified. If not, use current process UIC.
856 0831 2 |
857 0832 2 IF .option_block[cli$w_qdvalsiz] EQL 0
858 0833 2 THEN $GETJPI(ITMLST = DPLIT(WORD(4,jpi$ uic),
859 0834 2 uic_value,
860 0835 2 0,
861 0836 2 0))
862 0837 2 ELSE
863 0838 2 BEGIN
864 0839 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
865 0840 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
866 0841 2 IF NOT (status = lib$tparse(tparse_block,
867 0842 2 owner_state,
868 0843 2 owner_keys))
869 0844 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,
870 0845 2 1,
871 0846 2 option_block[cli$q_qdvaldesc]);
872 0847 2 IF NOT .setfile$flags[qual_parent]
873 0848 2 THEN
874 0849 2 BEGIN
875 0850 2 IF NOT ((.group LEQ %0'377' AND .group GEQ 0)
876 0851 2 AND
877 0852 2 (.member LEQ %0'377' AND .member GEQ 0))
878 0853 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error,
879 0854 2 1,
880 0855 2 option_block[cli$q_qdvaldesc],
881 0856 2 set$_facility^16 + shr$_valerr + sts$_k_error)
882 0857 2 ELSE uic_value = .group^16 + .member;
883 0858 2 END;
884 0859 2 END;
885 0860 2
886 0861 2 RETURN true;
887 0862 1 END;
```

.PSECT SPLITS,NOWRT,NOEXE,2

0304 0004 00000 P.AAA: .WORD 4, 772

;

	00000000	00000000	00004	00008	.ADDRESS UIC_VALUE	
					.LONG 0, 0	:
					.EXTRN SYSSGETJPI	
					.PSECT \$CODE\$,NOWRT,2	
			007C	00000	.ENTRY OWNER ACT, Save R2,R3,R4,R5,R6	0812
56	00000000G	00	9E	00002	MOVAB UIC_VALUE, R6	:
55	00000000G	00	9E	00009	MOVAB MEMBER, R5	:
54	00000000G	00	9E	00010	MOVAB LIB\$STOP, R4	:
53	00000000'	EF	9E	00017	MOVAB TPARSE_BLOCK+8, R3	:
		66	D4	0001E	CLRL UIC_VALUE	0827
52	04	AC	D0	00020	MOVL OPTION_BLOCK, R2	0832
		04	A2	B5	TSTW 4(R2)	:
			17	12	BNEQ 1\$:
			7E	7C	CLRQ -(SP)	0836
			7E	D4	CLRL -(SP)	:
	00000000'	EF	9F	0002D	PUSHAB P.AAA	:
		7E	7C	00033	CLRQ -(SP)	:
		7E	D4	00035	CLRL -(SP)	:
00000000G	00	07	FB	00037	CALLS #7, SYSSGETJPI	:
		7A	11	0003E	BRB 5\$:
	63	04	A2	3C	MOVZWL 4(R2), TPARSE_BLOCK+8	0839
04	A3	08	A2	D0	MOVL 8(R2), TPARSE_BLOCK+12	0840
	00000000'	EF	9F	00049	PUSHAB OWNER_KEYS	0841
	00000000'	EF	9F	0004F	PUSHAB OWNER_STATE	:
		FB	A3	9F	PUSHAB TPARSE_BLOCK	:
00000000G	00	03	FB	00058	CALLS #3, LIB\$TPARSE	:
	0E	50	E8	0005F	BLBS STATUS, 2\$:
		04	A2	9F	PUSHAB 4(R2)	0846
			01	DD	PUSHL #1	:
	00000000*	8F	DD	00067	PUSHL #<<<SETS FACILITY@16>+4344>+2>	:
		03	FB	0006D	CALLS #3, LIB\$STOP	:
42	00000000G	00	03	E0	BBS #3, SETFILES\$FLAGS+2, 5\$	0847
	00000000G	50	00	D0	MOVL GROUP, R0	0850
	000000FF	8F	50	D1	CMPL R0, #255	:
			14	14	BGTR 3\$:
			50	D5	TSTL R0	:
			10	19	BLSS 3\$:
			65	D0	MOVL MEMBER, R1	0852
000000FF	51	51	D1	0008F	CMPL R1, #255	:
			04	14	BGTR 3\$:
			51	D5	TSTL R1	:
			16	18	BGEQ 4\$:
	00000000*	8F	DD	0009C	PUSHL #<<<SETS FACILITY@16>+4584>+2>	0856
		04	A2	9F	PUSHAB 4(R2)	0855
			01	DD	PUSHL #1	:
	00000000*	8F	DD	000A7	PUSHL #<<<SETS FACILITY@16>+4344>+2>	:
		64	04	FB	CALLS #4, LIB\$STOP	:
			08	11	BRB 5\$:
50	50	10	78	000B2	ASHL #16, R0, R0	0857
66	50	65	C1	000B6	ADDL3 MEMBER, R0, UIC_VALUE	:
	50	01	D0	000BA	MOVL #1, R0	0861
			04	000BD	RET	0862

; Routine Size: 190 bytes, Routine Base: \$CODE\$ + 0338

SETACT
V04-000

H 5
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```
889 0863 1 GLOBAL ROUTINE retent_act (option_block,callback) =
890 0864 1 ++
891 0865 1
892 0866 1 This is the action routine for the /RETENTION qualifier.
893 0867 1 The minimum retention value must be given. If no maximum retention value is
894 0868 1 specified, a value of twice the minimum (but no more than a week more than
895 0869 1 the minimum) is used.
896 0870 1
897 0871 1 --
898 0872 2 BEGIN
899 0873 2
900 0874 2 LOCAL
901 0875 2     status,
902 0876 2     temp_desc : BBLOCK[dsc$c_s_bln];
903 0877 2
904 0878 2 MAP
905 0879 2     option_block : REF BBLOCK;          ! Define the CLI options block
906 0880 2
907 0881 2
908 0882 2
909 0883 2 Parse the input, to obtain the minimum and maximum retention times.
910 0884 2
911 0885 2
912 0886 2 CHSFILL(0, 8, retmin_value);          ! Zero minimum value
913 0887 2 CHSFILL(0, 8, retmax_value);      ! Zero maximum value
914 0888 2
915 0889 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
916 0890 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
917 0891 2 IF NOT (status = lib$tparse(tparse_block, ret_state, ret_keys))
918 0892 2 THEN
919 0893 2     BEGIN
920 0894 2         SIGNAL(set$_facility^16 + shr$_syntax + sts$_error,
921 0895 2             1,
922 0896 2             option_block[cli$q_qdvaldesc]);
923 0897 2         RETURN false;          ! If error in parse, return false
924 0898 2     END;
925 0899 2
926 0900 2
927 0901 2 If a minimum value was not supplied, signal an error
928 0902 2
929 0903 2
930 0904 2 IF .retmin_value[0] EQL 0
931 0905 2 THEN
932 0906 2     BEGIN
933 0907 2         SIGNAL(set$_facility^16 + shr$_syntax + sts$_error,
934 0908 2             1,
935 0909 2             option_block[cli$q_qdvaldesc]);
936 0910 2         RETURN false;
937 0911 2     END;
938 0912 2
939 0913 2
940 0914 2 Convert the minimum retention value to 64-bit system delta time format
941 0915 2
942 0916 2 IF NOT (status = LIB$CVT_DTIME(retmin_value, temp_desc))
943 0917 2 THEN
944 0918 2     BEGIN
945 0919 2         SIGNAL(set$_facility^16 + shr$_syntax + sts$_error,
```



```

946 0920 1,
947 0921 retmin_value,
948 0922 status);
949 0923 RETURN false;
950 0924 END
951 0925 ELSE CH$MOVE(8, temp_desc, retmin_value);      ! If no error, put 64-bit
952 0926                                         ! delta time in place
953 0927
954 0928
955 0929 ! If a maximum value was supplied, then convert it in the same way.
956 0930
957 0931
958 0932 IF .retmax_value[0] NEQ 0
959 0933 THEN
960 0934 BEGIN
961 0935 IF NOT (status = LIB$CVT_DTIME(retmax_value, temp_desc))
962 0936 THEN
963 0937 BEGIN
964 0938 SIGNAL(set$_facility^16 + shr$_syntax + sts$_error,
965 0939 1,
966 0940 retmax_value,
967 0941 status);
968 0942 RETURN status;
969 0943 END
970 0944 ELSE CH$MOVE(8, temp_desc, retmax_value);
971 0945 END
972 0946
973 0947
974 0948 ! If no maximum value was supplied, then use twice the minimum value. If this
975 0949 value is greater than a week, use only a week.
976 0950
977 0951
978 0952 ELSE calculate_max(retmin_value, retmax_value);
979 0953
980 0954 RETURN true;
981 0955 END;
```

			0FFC 00000	.ENTRY	RETENT ACT, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0863
					R10,R11	
		5B	00000000G 00 9E 00002	MOVAB	LIB\$CVT_DTIME, R11	
		5A	00000000G 00 9E 00009	MOVAB	LIB\$SIGNAL, R10	
		59	00000000' EF 9E 00010	MOVAB	TPARSE_BLOCK+8, R9	
		58	00000000G 00 9E 00017	MOVAB	RETMIN_VALUE, R8	
		57	00000000G 00 9E 0001E	MOVAB	RETMAX_VALUE, R7	
		5E	00000000' 08 C2 00025	SUBL2	#8, SP	
08	00	6E	00 2C 00028	MOVC5	#0, (SP), #0, #8, RETMIN_VALUE	0886
			68 0002D			
08	00	6E	00 2C 0002E	MOVC5	#0, (SP), #0, #8, RETMAX_VALUE	0887
			67 00033			
		52	04 AC D0 00034	MOVL	OPTION_BLOCK, R2	0889
		69	04 A2 3C 00038	MOVZWL	4(R2), TPARSE_BLOCK+8	
	04	A9	08 A2 D0 0003C	MOVL	8(R2), TPARSE_BLOCK+12	0890
			00000000' EF 9F 00041	PUSHAB	RET_KEYS	0891

		00000000*	EF 9F 00047	PUSHAB	RET STATE	
		F8	A9 9F 0004D	PUSHAB	TPARSE BLOCK	
00000000G	00		03 FB 00050	CALLS	#3, LIB\$TPARSE	
	56		50 D0 00057	MOVL	R0, STATUS	
	04		56 E9 0005A	BLBC	STATUS, 1\$	
			68 D5 0005D	TSTL	RETMIN_VALUE	0904
			10 12 0005F	BNEQ	2\$	
		04	A2 9F 00061	PUSHAB	4(R2)	0909
			01 DD 00064	PUSHL	#1	
		00000000*	8F DD 00066	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		03 FB 0006C	CALLS	#3, LIB\$SIGNAL	
			5B 11 0006F	BRB	7\$	0910
		4100	8F BB 00071	PUSHR	#*M<R8, SP>	0916
	6B		02 FB 00075	CALLS	#2, LIB\$CVT_DTIME	
	56		50 D0 00078	MOVL	R0, STATUS	
	11		56 E8 0007B	BLBS	STATUS, 3\$	
			56 DD 0007E	PUSHL	STATUS	0922
			58 DD 00080	PUSHL	R8	0919
			01 DD 00082	PUSHL	#1	
		00000000*	8F DD 00084	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		04 FB 0008A	CALLS	#4, LIB\$SIGNAL	
			3D 11 0008D	BRB	7\$	0923
68	6E		08 28 0008F	MOV C3	#8, TEMP_DESC, RETMIN_VALUE	0925
			67 D5 00093	TSTL	RETMAX_VALUE	0932
			26 13 00095	BEQL	5\$	
		4080	8F BB 00097	PUSHR	#*M<R7, SP>	0935
	6B		02 FB 0009B	CALLS	#2, LIB\$CVT_DTIME	
	56		50 D0 0009E	MOVL	R0, STATUS	
	13		56 E8 000A1	BLBS	STATUS, 4\$	
			56 DD 000A4	PUSHL	STATUS	0941
			57 DD 000A6	PUSHL	R7	0938
			01 DD 000A8	PUSHL	#1	
		00000000*	8F DD 000AA	PUSHL	#<<<SET\$ FACILITY@16>+4344>+2>	
	6A		04 FB 000B0	CALLS	#4, LIB\$SIGNAL	
	50		56 D0 000B3	MOVL	STATUS, R0	0942
			04 000B6	RET		
67	6E		08 28 000B7	MOV C3	#8, TEMP_DESC, RETMAX_VALUE	0944
			0B 11 000BB	BRB	6\$	0932
			57 DD 000BD	PUSHL	R7	0952
			58 DD 000BF	PUSHL	R8	
			02 FB 000C1	CALLS	#2, CALCULATE_MAX	
00000000G	00		01 D0 000C8	MOVL	#1, R0	0954
	50		04 000CB	RET		
			50 D4 000CC	CLRL	R0	0955
			04 000CE	RET		

; Routine Size: 207 bytes, Routine Base: \$CODE\$ + 03F6


```
: 983      0956 1 ROUTINE test_char =
: 984      0957 1 !++
: 985      0958 1
: 986      0959 1 This routine is used by TPARSE to process the /RETENTION values.
: 987      0960 1
: 988      0961 1 NOTE that this routine references the Argument Pointer (AP) directly,
: 989      0962 1 due to the fact that TPARSE does not follow the calling standard.
: 990      0963 1
: 991      0964 1 !--
: 992      0965 1
: 993      0966 2 BEGIN
: 994      0967 2
: 995      0968 2 BUILTIN AP;                      ! Declare the argument pointer
: 996      0969 2
: 997      0970 2 LOCAL
: 998      0971 2     ptr,
: 999      0972 2     char : BYTE;
: 1000     0973 2
: 1001     0974 2 ptr = .ap + $BYTEOFFSET(tpa$b_char);      ! Look at the character just read
: 1002     0975 2 char = CH$RCHAR(.ptr);
: 1003     0976 2
: 1004     0977 2 IF .char EQL ','
: 1005     0978 2 THEN RETURN false                      ! If a comma, then end of string
: 1006     0979 2 ELSE RETURN true;                      ! Else continue processing
: 1007     0980 2
: 1008     0981 1 END;
```

```
0000 00000 TEST_CHAR:
50      18  AC  9E 00002      .WORD      Save nothing
51      60  90 00006      MOVAB      24(AP), PTR
2C      51  91 00009      MOV      (PTR), CHAR
03      12 0000C      CMPB      CHAR, #44
50      D4 0000E      BNEQ      1$
04      04 00010      CLRL      R0
50      01  D0 00011 1$:    RET
04      04 00014      RET      #1, R0
```

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 04C5

```
: 0956
: 0974
: 0975
: 0977
: 0979
: 0981
```

```
1010 0982 1 GLOBAL ROUTINE user_act (option_block, callback) =
1011 0983 1 ++
1012 0984 1
1013 0985 1 This is the action routine for the USER_NAME qualifier of SET VOLUME. It
1014 0986 1 retrieves the value of the string, checks that it is no longer than
1015 0987 1 twelve characters, and stores a descriptor pointing to it.
1016 0988 1
1017 0989 1 --
1018 0990 2 BEGIN
1019 0991 2
1020 0992 2 OWN user_label : VECTOR[12,BYTE];      ! Place to put process username
1021 0993 2
1022 0994 2 LOCAL status;                          ! Status return
1023 0995 2
1024 0996 2 MAP option_block : REF BBLOCK;        ! Define the cli block
1025 0997 2
1026 0998 2
1027 0999 2 If no username was specified, use the current process username.
1028 1000 2
1029 1001 2 IF .option_block[cli$w_qdvalsiz] EQL 0
1030 1002 2 THEN
1031 1003 2 BEGIN
1032 1004 2 $GETJPI(ITMLST = UPLIT(WORD(4, jpi$username),      ! Get the username
1033 1005 2 user_label,                                          ! Store it here
1034 1006 2 user_value[0],                                    ! Store length here
1035 1007 2 0));
1036 1008 2 user_value[1] = user_label;
1037 1009 2 END
1038 1010 2
1039 1011 2 ELSE
1040 1012 2 BEGIN
1041 1013 2
1042 1014 2
1043 1015 2 Check that the string is no longer than twelve characters.
1044 1016 2
1045 1017 2 IF .option_block[cli$w_qdvalsiz] GTR 12
1046 1018 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
1047 1019 2 1,
1048 1020 2 option_block[cli$q_qdvaldesc],
1049 1021 2 set$_facility^16 + shr$_valerr + sts$_error);
1050 1022 2
1051 1023 2 Record the length and location in USER_VALUE.
1052 1024 2
1053 1025 2 user_value[0] = .option_block[cli$w_qdvalsiz];
1054 1026 2 user_value[1] = .option_block[cli$a_qdvaladr];
1055 1027 2 END;
1056 1028 2
1057 1029 2 RETURN true;
1058 1030 1 END;
```

```
                                .PSECT SPLITS,NOWRT,NOEXE,2
                                0202 0004 00010 P.AAB: .WORD 4, 514
00000000G 00000000' 00014 .ADDRESS USER_LABEL, USER_VALUE
                                00000000 0001C .LONG 0
```

:
:
:

.PSECT \$OWNS,NOEXE,2

0002C USER_LABEL:
.BLKB 12

.PSECT \$CODE\$,NOWRT,2

			000C 00000		.ENTRY USER_ACT, Save R2,R3		: 0982
53	00000000G	00	9E 00002		MOVAB USER_VALUE+4, R3		
52	04	AC	D0 00009		MOVL OPTION_BLOCK, R2		: 1001
	04	A2	B5 0000D		TSTW 4(R2)		
		1E	12 00010		BNEQ 1\$		
		7E	7C 00012		CLRQ -(SP)		: 1007
		7E	D4 00014		CLRL -(SP)		
	00000000'	EF	9F 00016		PUSHAB P.AAB		
		7E	7C 0001C		CLRQ -(SP)		
		7E	D4 0001E		CLRL -(SP)		
00000000G	00	07	FB 00020		CALLS #7, SYSSGETJPI		
63	00000000'	EF	9E 00027		MOVAB USER_LABEL, USER_VALUE+4		: 1008
		27	11 0002E		BRB 3\$: 1001
0C	04	A2	B1 00030	1\$:	CMPW 4(R2), #12		: 1017
		18	1B 00034		BLEQU 2\$		
	00000000*	8F	DD 00036		PUSHL #<<<SET\$_FACILITY@16>+4584>+2>		: 1021
	04	A2	9F 0003C		PUSHAB 4(R2)		: 1020
		01	DD 0003F		PUSHL #1		
	00000000*	8F	DD 00041		PUSHL #<<<SET\$_FACILITY@16>+4344>+2>		
00000000G	00	04	FB 00047		CALLS #4, LIB\$STOP		
FC	A3	A2	3C 0004E	2\$:	MOVZWL 4(R2), USER_VALUE		: 1025
	63	A2	D0 00053		MOVL 8(R2), USER_VALUE+4		: 1026
	50	01	D0 00057	3\$:	MOVL #1, R0		: 1029
		04	0005A		RET		: 1030

; Routine Size: 91 bytes, Routine Base: \$CODE\$ + 04DA

```
: 1060      1031 1 GLOBAL ROUTINE vprot_act (option_block, callback) =
: 1061      1032 1 ++
: 1062      1033 1
: 1063      1034 1 This is the action routine for the PROTECTION qualifier of SET VOLUME.
: 1064      1035 1 The protection is parsed and stored.
: 1065      1036 1
: 1066      1037 1 --
: 1067      1038 2 BEGIN
: 1068      1039 2
: 1069      1040 2 LOCAL
: 1070      1041 2     status,      ! Status return
: 1071      1042 2     temp;      ! Temporary place for FPROT_VALUE
: 1072      1043 2
: 1073      1044 2 MAP option_block : REF BBLOCK; ! Define CLI block
: 1074      1045 2
: 1075      1046 2
: 1076      1047 2 ! Stuff the TPARSE block with the string
: 1077      1048 2
: 1078      1049 2 tparse_block[tpa$l_stringcnt] = .option_block[cli$w_qdvalsiz];
: 1079      1050 2 tparse_block[tpa$l_stringptr] = .option_block[cli$a_qdvaladr];
: 1080      1051 2
: 1081      1052 2 temp = .fprot_value;      ! Save contents of FPROT
: 1082      1053 2 fprot_value = 0;      ! Initialize file protection value
: 1083      1054 2
: 1084      1055 2
: 1085      1056 2 ! Now to parse the protection given. When finished, FPROT_VALUE will
: 1086      1057 2 ! have the following values:
: 1087      1058 2
: 1088      1059 2 FPROT_VALUE[low_word] = protection value
: 1089      1060 2 FPROT_VALUE[high_word] = group mask i.e. SYSTEM, OWNER, GROUP, WORLD
: 1090      1061 2
: 1091      1062 2 IF NOT (status = LIB$TPARSE(tparse_block,
: 1092      1063 2     pro_state,
: 1093      1064 2     pro_keys))
: 1094      1065 2 THEN SIGNAL_STOP(set$_facility^T6 + shr$_syntax + sts$_error,
: 1095      1066 2     1,
: 1096      1067 2     option_block[cli$q_qdvaldesc],
: 1097      1068 2     .status);
: 1098      1069 2
: 1099      1070 2 vprot_value = .fprot_value;      ! Store VPROT value
: 1100      1071 2 fprot_value = .temp;      ! Restore FPROT value
: 1101      1072 2
: 1102      1073 2 RETURN true;
: 1103      1074 1 END;
```

			003C 00000	.ENTRY	VPROT_ACT, Save R2,R3,R4,R5	: 1031
	55	00000000'	EF 9E 00002	MOVAB	TPARSE_BLOCK+8, R5	:
	54	00000000G	00 9E 00009	MOVAB	FPROT_VALUE, R4	:
	52	04	AC D0 00010	MOVL	OPTION_BLOCK, R2	: 1049
	65	04	A2 3C 00014	MOVZWL	4(R2), TPARSE_BLOCK+8	:
04	A5	08	A2 D0 00018	MOVL	8(R2), TPARSE_BLOCK+12	: 1050
	53		64 D0 0001D	MOVL	FPROT_VALUE, TEMP	: 1052
			64 D4 00020	CLRL	FPROT_VALUE	: 1053

SETACT
V04-000

C 6
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00000000G	00	00000000'	EF	9F	00022	PUSHAB	PRO_KEYS	:	1062
	14	00000000'	EF	9F	00028	PUSHAB	PRO_STATE	:	
		F8	A5	9F	0002E	PUSHAB	TPARSE_BLOCK	:	
			03	FB	00031	CALLS	#3, LIB\$TPARSE	:	
			50	E8	00038	BLBS	STATUS, 1\$:	1068
		04	50	DD	0003B	PUSHL	STATUS	:	1067
			A2	9F	0003D	PUSHAB	4(R2)	:	
			01	DD	00040	PUSHL	#1	:	
		00000000*	8F	DD	00042	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	:	
00000000G	00		04	FB	00048	CALLS	#4, LIB\$STOP	:	
00000000G	00		64	DO	0004F	MOVL	FPROT_VALUE, VPROT_VALUE	:	1070
	64		53	DO	00056	MOVL	TEMP, FPROT_VALUE	:	1071
	50		01	DO	00059	MOVL	#1, R0	:	1073
			04	0005C	RET			:	1074

; Routine Size: 93 bytes, Routine Base: \$CODE\$ + 0535

```
1105 1075 1 GLOBAL ROUTINE vrsn_act (option_block,callback) =
1106 1076 1 ++
1107 1077 1
1108 1078 1 This is the action routine for the VERSION_LIMIT qualifier. The value of
1109 1079 1 the version limit is collected.
1110 1080 1
1111 1081 1 --
1112 1082 2 BEGIN
1113 1083 2
1114 1084 2 LOCAL
1115 1085 2     status,
1116 1086 2     desc : BBLOCK[dsc$sc_s_bln];
1117 1087 2
1118 1088 2 MAP
1119 1089 2     option_block : REF BBLOCK;           ! Define the CLI options block
1120 1090 2
1121 1091 2     vrsn_value = 32767;                   ! Preset to no limit
1122 1092 2
1123 1093 2
1124 1094 2 See if a value was present. If yes, use it. Otherwise, use default
1125 1095 2
1126 1096 2 IF .option_block[cli$qdvalsiz] EQL 0
1127 1097 2 THEN RETURN true;
1128 1098 2
1129 1099 2 IF NOT (status = LIB$CVT_DTB(.option_block[cli$qdvalsiz],
1130 1100 2     .option_block[cli$a_qdvaladr],
1131 1101 2     vrsn_value))
1132 1102 2 THEN
1133 1103 2     BEGIN
1134 1104 2     SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
1135 1105 2     1,
1136 1106 2     option_block[cli$q_qdvaldesc],
1137 1107 2     .status);
1138 1108 2     END
1139 1109 2 ELSE
1140 1110 2     BEGIN
1141 1111 2     IF NOT (.vrsn_value GEQ 0 AND .vrsn_value LEQ 65535)
1142 1112 2     THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_error,
1143 1113 2     1,
1144 1114 2     option_block[cli$q_qdvaldesc],
1145 1115 2     set$_facility^16 + shr$_valerr + sts$_error);
1146 1116 2     END;
1147 1117 2
1148 1118 2 RETURN true;
1149 1119 2 END;
```

```
53 00000000G 00 000C 00000
5E          08 9E 00002
63          8F C2 00009
52          AC 3C 0000C
          04 D0 00011
          04 A2 B5 00015
          3D 13 00018
```

```
.ENTRY VRSN_ACT, Save R2,R3
MOVAB VRSN_VALUE, R3
SUBL2 #8, SP
MOVZWL #32767, VRSN_VALUE
MOVL OPTION_BLOCK, R2
TSTW 4(R2)
BEQL 4$
```

```
: 1075
:
: 1091
: 1096
:
:
```


SETACT
V04-000

E 6
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			53	DD	0001A	PUSHL	R3	:	1099
			A2	DD	0001C	PUSHL	8(R2)	:	1100
		08	A2	3C	0001F	MOVZWL	4(R2), -(SP)	:	1099
00000000G	7E	04	03	FB	00023	CALLS	#3, LIB\$CVT_DTB	:	
	00		50	E8	0002A	BLBS	STATUS, 1\$:	
	04		50	DD	0002D	PUSHL	STATUS	:	1107
			14	11	0002F	BRB	3\$:	1106
	50		63	D0	00031	MOVL	VRSN_VALUE, R0	:	1111
0000FFFF	8F		09	19	00034	BLSS	2\$:	
			50	D1	00036	CMPL	R0, #65535	:	
			18	15	0003D	BLEQ	4\$:	
		00000000*	8F	DD	0003F	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	:	1115
		04	A2	9F	00045	PUSHAB	4(R2)	:	1114
			01	DD	00048	PUSHL	#1	:	
		00000000*	8F	DD	0004A	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	:	
00000000G	00		04	FB	00050	CALLS	#4, LIB\$STOP	:	
	50		01	D0	00057	MOVL	#1, R0	:	1118
			04	0005A	RET			:	1119

; Routine Size: 91 bytes, Routine Base: \$CODE\$ + 0592

```
1151 1120 1 GLOBAL ROUTINE window_act (option_block, callback) =
1152 1121 1 ++
1153 1122 1
1154 1123 1 This is the action routine for the /WINDOWS qualifier. It retrieves the
1155 1124 1 value and performs bounds checking on it.
1156 1125 1
1157 1126 1 --
1158 1127 2 BEGIN
1159 1128 2
1160 1129 2 LOCAL
1161 1130 2     status,           ! Status return
1162 1131 2     desc : BBLOCK[dsc$sc_s_bln]; ! General descriptor
1163 1132 2
1164 1133 2 MAP option_block : REF BBLOCK; ! Define the CLI block
1165 1134 2
1166 1135 2 window_value = 7;           ! Set up the default
1167 1136 2
1168 1137 2
1169 1138 2 If a value was specified, use it; otherwise, use the default.
1170 1139 2
1171 1140 2 IF .option_block[cli$w_qdvalsiz] EQL 0
1172 1141 2 THEN RETURN true;
1173 1142 2
1174 1143 2
1175 1144 2 Convert the value
1176 1145 2
1177 1146 2 IF NOT (status = LIB$CVT_DTB(.option_block[cli$w_qdvalsiz],
1178 1147 2     .option_block[cli$a_qdvaladr],
1179 1148 2     window_value))
1180 1149 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error, ! Signal a syntax error
1181 1150 2     1,
1182 1151 2     option_block[cli$q_qdvaldesc],
1183 1152 2     .status)
1184 1153 2 ELSE
1185 1154 2 BEGIN
1186 1155 2     IF NOT (.window_value GEQ 7           ! Check that value is in range
1187 1156 2     AND
1188 1157 2     .window_value LEQ 80)
1189 1158 2 THEN SIGNAL_STOP(set$_facility^16 + shr$_syntax + sts$_k_error, ! If not, exit with an error.
1190 1159 2     1,
1191 1160 2     option_block[cli$q_qdvaldesc],
1192 1161 2     set$_facility^16 + shr$_valerr + sts$_k_error);
1193 1162 2 END;
1194 1163 2 RETURN true;
1195 1164 1 END;
```

53	00000000G	00	9E	00002	.ENTRY	WINDOW_ACT, Save R2,R3	1120
5E		08	C2	00009	MOVAB	WINDOW_VALUE, R3	
63		07	D0	0000C	SUBL2	#8, SP	
52	04	AC	D0	0000F	MOVL	#7, WINDOW_VALUE	1135
	04	A2	B5	00013	MOVL	OPTION_BLOCK, R2	1140
		40	13	00016	TSTW	4(R2)	
					BEQL	4\$	

SETACT
V04-000

6 6
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			53	DD	00018	PUSHL	R3	:	1146
		08	A2	DD	0001A	PUSHL	8(R2)	:	1147
		04	A2	3C	0001D	MOVZWL	4(R2), -(SP)	:	1146
00000000G	7E		03	FB	00021	CALLS	#3, LIB\$CVT_DTB	:	
	00		50	EB	00028	BLBS	STATUS, 1\$:	
	04		50	DD	0002B	PUSHL	STATUS	:	1152
			17	11	0002D	BRB	3\$:	1151
	50		63	D0	0002F	1\$:	MOVL	WINDOW_VALUE, R0	1155
	07		50	D1	00032	CMPL	R0, #7	:	
			09	19	00035	BLSS	2\$:	
00000050	8F		50	D1	00037	CMPL	R0, #80	:	1157
			18	15	0003E	BLEQ	4\$:	
		00000000*	8F	DD	00040	2\$:	PUSHL	#<<<SET\$_FACILITY@16>+4584>+2>	1161
		04	A2	9F	00046	3\$:	PUSHAB	4(R2)	1160
			01	DD	00049	PUSHL	#1	:	
		00000000*	8F	DD	0004B	PUSHL	#<<<SET\$_FACILITY@16>+4344>+2>	:	
00000000G	00		04	FB	00051	CALLS	#4, LIB\$STOP	:	
	50		01	D0	00058	4\$:	MOVL	#1, R0	1163
			04	0005B	RET			:	1164

; Routine Size: 92 bytes, Routine Base: \$CODE\$ + 05ED

SETACT
V04-000

H 6
16-Sep-1984 01:06:01
14-Sep-1984 12:08:59

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETACT.B32;1

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(33)

: 1197 1165 1 END
: 1198 1166 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	56	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
LIB\$KEYOS	40	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
LIB\$STATES	642	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
LIB\$KEY1\$	104	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
\$CODE\$	1609	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
ABS	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)
\$PLITS	32	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	30	0	1000	00:01.8
\$255\$DUA28:[SYSLIB]CLIMAC.L32;1	14	0	0	9	00:00.1
\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	29	69	14	00:00.2

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:SETACT/OBJ=OBJ\$:SETACT MSRC\$:SETACT/UPDATE=(ENHS:SETACT)

: Size: 1609 code + 874 data bytes
: Run Time: 01:06.7
: Elapsed Time: 03:44.0
: Lines/CPU Min: 1049
: Lexemes/CPU-Min: 69494
: Memory Used: 274 pages
: Compilation Complete

0052 AH-BT13A-SE
VAX/VMS V4.0

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